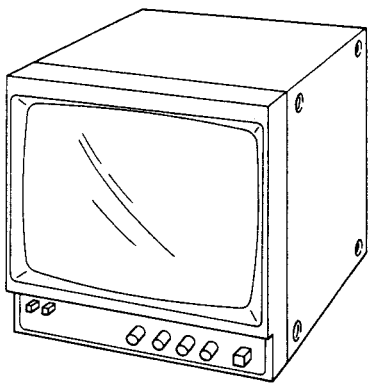
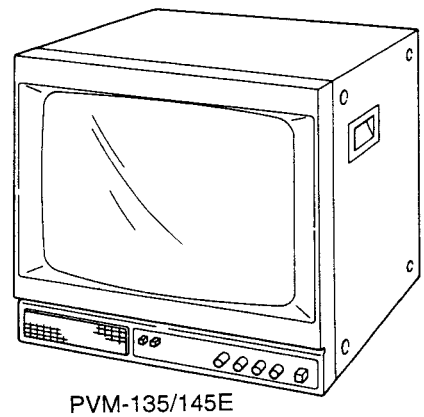
PVM-95E/135/145E

SERVICE MANUAL

US Model
Canadian Model
PVM-135
AEP Model
PVM-95E/145E



PVM-95E



PVM-135/145E

SPECIFICATIONS

Video signal

Resolution	PVM-95E: 900 TV lines PVM-135/145E: 1000 TV lines
Frequency response	10.0 MHz (Less than –3.0 dB)

Picture performance

Normal scan	8% overscan of CRT effective screen area
H. linearity	Less than 8.0% (typical)
V. linearity	Less than 7.0% (typical)
Color temperature	9300K

Inputs and Outputs

Inputs	VIDEO IN (LINE A, LINE B): BNC connectors, 1 Vp-p, sync negative AUDIO IN (LINE A, LINE B): phono jacks EXT SYNC: BNC connector, 4 Vp-p, sync negative
Loop-through outputs	VIDEO OUT (LINE A, LINE B): BNC connectors, 75 ohms terminated AUDIO OUT (LINE A, LINE B): phono jacks EXT SYNC: BNC connector, 75 ohms terminated
Remote input	REMOTE: 8-pin mini DIN connector (See the figure in "Pin assignment".)

General

Picture tube	PVM-95E: 21.7-cm (8 5/8 inches) picture measured diagonally 23.7-cm (9 3/8 inches) picture tube measured diagonally PVM-135/145E: 32.1-cm (12 5/8 inches picture measured diagonally 34.8-cm (13 3/4 inches) picture tube measured diagonally
Power consumption	PVM-95E: 0.3 – 0.18 A, 26 W. PVM-135: 30 W Max. PVM-145E: 0.3 – 0.18 A, 28 W.
Power requirements	PVM-135: 120 V AC, 50/60 Hz PVM-95E/145E: 100 – 240 V AC, 50/60
Operating temperature range	0 – 35°C (32 –95°F)
Storage temperature range	–10 – 40°C (14 –104°F)
Humidity	0 – 90%

–Continued on next page–

MICROFILM

BLACK AND WHITE VIDEO MONITOR

SONY®

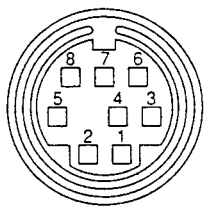
Dimensions
PVM-95E:
Approx. 217 × 218 × 250 mm (w/h/d)
(8 5/8 × 8 5/8 × 9 7/8 inches)
PVM-135/145E:
Approx. 346 × 340 × 330 mm (w/h/d)
(13 5/8 × 13 1/2 × 13 inches)
not incl. projecting parts and controls

Mass
PVM-95E: Approx. 5.5kg
(12 lb 2 oz)
PVM-135/145E: Approx. 11kg
(24 lb 4 oz)

Accessories supplied
AC power cord (1)
AC plug holder (1 set)

Pin assignment

REMOTE connector (8-pin mini DIN)



Pin No.	Signal
1	LINE
2	INT/EXT SYNC
3	GND
4	—
5	—
6	—
7	—
8	—

For remote control, connect the pin of the desired function to pin 3 (GND).

Design and specifications are subject to change without notice.

SAFETY CHECK-OUT

(US Model only)

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.

2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.

3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.

4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair Point them out to the customer and recommend their replacement.

5. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.

6. Check the line cord for cracks and abrasion. Recommend the replacement of any such line cord to the customer.

7. Check the condition of the monopole antenna (if any). Make sure the end is not broken off, and has the plastic cap on it. Point out the danger of impalement on a broken antenna to the customer, and recommend the antenna's replacement.

8. Check the B+ and HV to see they are at the values specified. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.

9. Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.

2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.

3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

HOW TO FIND A GOOD EARTH GROUND

A cold-water pipe is guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth-ground, verify that it is at ground by measuring the resistance between it and a coldwater pipe with an ohmmeter. The reading should be zero ohms. If a cold-water pipe is not accessible, connect a 60-100 watts trouble light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side of the line, the lamp should light at normal brilliance if the screw is at ground potential. (See Fig. B)

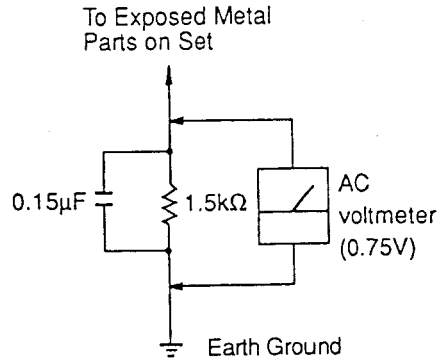


Fig. A. Using an AC voltmeter to check AC leakage.

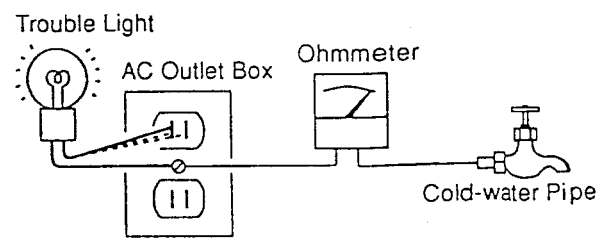


Fig. B. Checking for earth ground.

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(CAUTION)

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

WARNING!!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.
THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

(ATTENTION)

APRES AVOIR DECONNECTE LE CAP DE L'ANODE, COURTCIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

ATTENTION!!

AFIN D'EVITER TOUT RISQUE D'ELECTROCUTION PROVENANT D'UN CHÁSSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÉ LORS DE TOUT DÉPANNAGE. LE CHÁSSIS DE CE RÉCEPTEUR EST DIRECTEMENT RACCORDÉ Á L'ALIMENTATION SECTEUR.

ATTENTION AUX COMPOSANTS RELATIFS ÁLA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET PAR UNE MAPQUE ⚠ SUR LES SCHÉMAS DE PRINCIPE, LES VUES EXPLOSÉES ET LES LISTES DE PIECES CONT D'UNE IMPORTANCE CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÉCE EST INDIQUÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY. LES RÉGLAGES DE CIRCUIT DONT L'IMPORTANCE EST CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT SONT IDENTIFIES DANS LE PRÉSENT MANUEL. SUIVRE CES PROCÉDURES LORS DE CHAQUE REMPLACEMENT DE COMPOSANTS CRITIQUES, OU LORSQU'UN MAUVAIS FONCTIONNEMENT EST SUSPECTÉ.

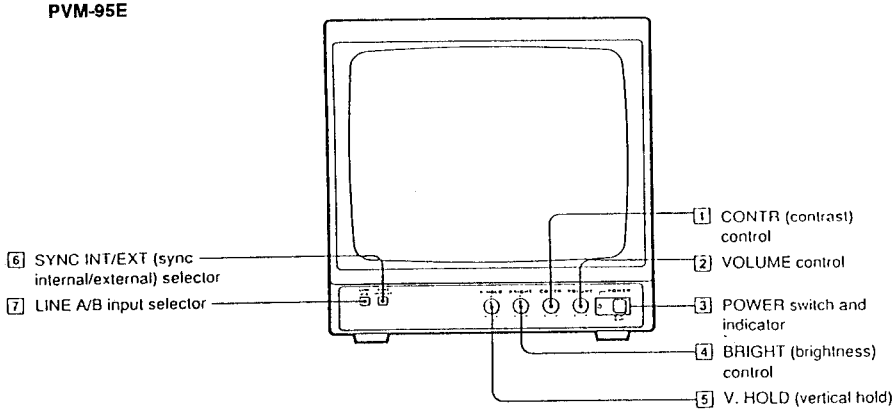
SECTION 1
GENERAL

Location and Function of Parts and Controls

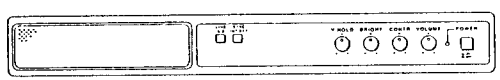
Location and Function of Parts and Controls

Front

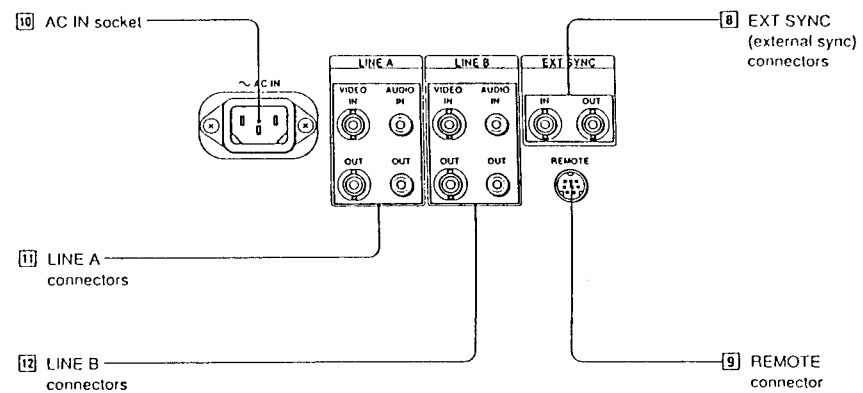
PVM-95E


[6] SYNC INT/EXT (sync internal/external) selector
[7] LINE A/B input selector
[1] CONTR (contrast) control
[2] VOLUME control
[3] POWER switch and indicator
[4] BRIGHT (brightness) control
[5] V. HOLD (vertical hold) control

PVM-135/145E



Rear



[1] CONTR (contrast) control
Turn clockwise to make the contrast stronger and counterclockwise to make it weaker.

[2] VOLUME control
Turn this control clockwise or conterclockwise to obtain the desired volume.

[3] POWER switch and indicator
Depress to turn the monitor on. The indicator will light up in green.

[4] BRIGHT (brightness) control
Turn clockwise for more brightness and counterclockwise for less.

[5] V. HOLD (vertical hold) control
Turn to stabilize the picture if it rolls vertically.

[6] SYNC INT/EXT (sync internal/external) selector
Keep this button released (INT) to operate the monitor on the sync signal from the displayed composite video signal.
Depress this button (EXT) to operate the monitor on an external sync signal fed through the EXT SYNC connector on the rear panel.

[7] LINE A/B input selector
Keep this button released (A) for a signal fed through the LINE A connectors. Depress this button (B) for a signal fed through the LINE B connectors.

[8] EXT SYNC (external sync) connectors
IN (BNC): When this monitor operates on an external sync signal, connect the reference signal from a sync generator to this connector. In this case, depress the SYNC INT/EXT selector on the front panel (EXT).
OUT (BNC): Loop-through output of the EXT SYNC IN connector. Connect to the external sync input of video equipment to be synchronized with this monitor.

[9] REMOTE connector (8-pin mini DIN)
Connecting this connector to a switcher enables power on/off control.
special-effect generator, etc. The tally lamp on the front panel will be turned on and off by the connected equipment. For this connector's pin assignment, see "Specifications" on page 6.

[10] AC IN socket
Connect the AC power cord (supplied) to this socket and to a wall outlet.

[11] LINE A connectors
To monitor a signal fed through these connectors, keep the LINE A/B input selector released on the front panel.

VIDEO IN (BNC): Connect to the video output of a video camera, VCR or other video equipment.
VIDEO OUT (BNC): Loop-through output of the VIDEO IN connector. Connect to the video input of a VCR or another monitor.
AUDIO IN (phono jack): Connect to the audio output of a VCR or a microphone (through a suitable microphone amplifier).
AUDIO OUT (phono jack): Loop-through output of the AUDIO IN connector. Connect to the audio input of a VCR or another monitor.

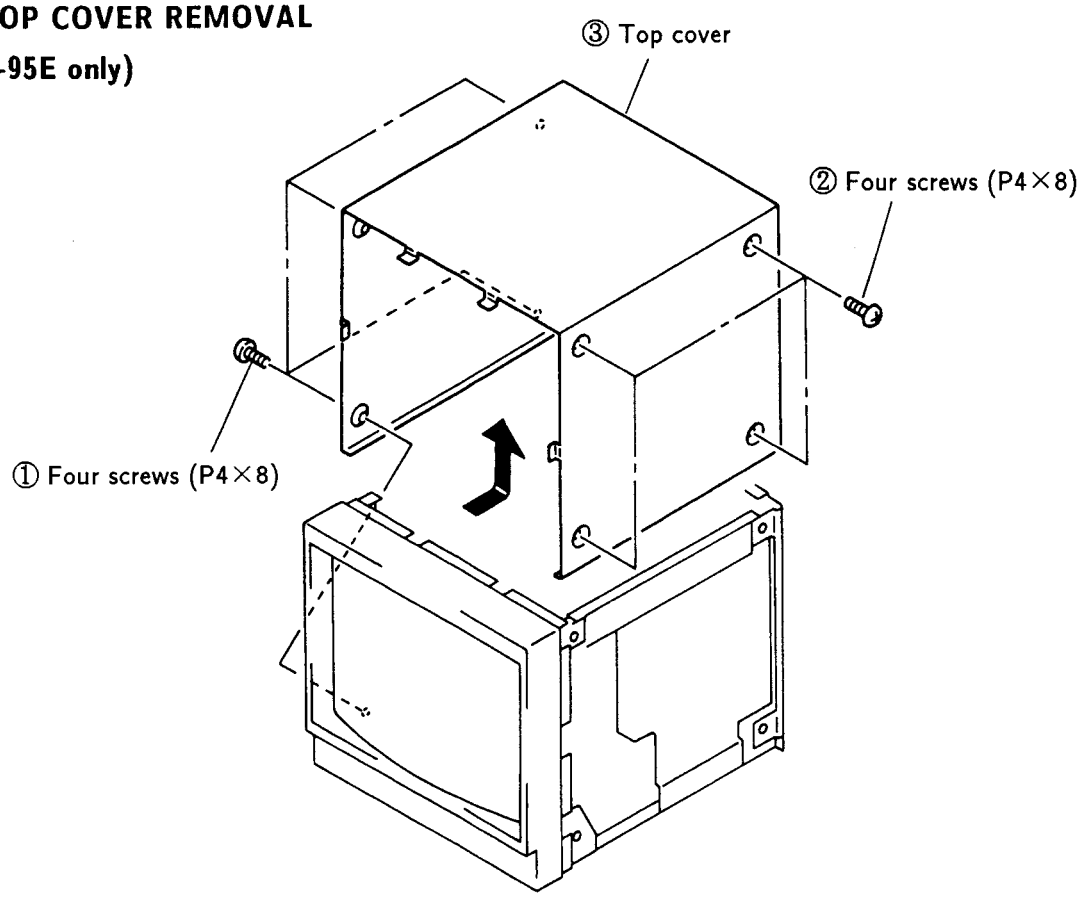
[12] LINE B connectors
To monitor a signal fed through these connectors, depress the LINE A/B input selector on the front panel.

VIDEO IN (BNC): Connect to the video output of a video camera, VCR or other video equipment.
VIDEO OUT (BNC): Loop-through output of the VIDEO IN connector. Connect to the video input of a VCR or another monitor.
AUDIO IN (phono jack): Connect to the radio output of a VCR or a microphone (through a suitable microphone amplifier).
AUDIO OUT (phono jack): Loop-through output of the AUDIO IN connector. Connect to the audio input of a VCR or another monitor.

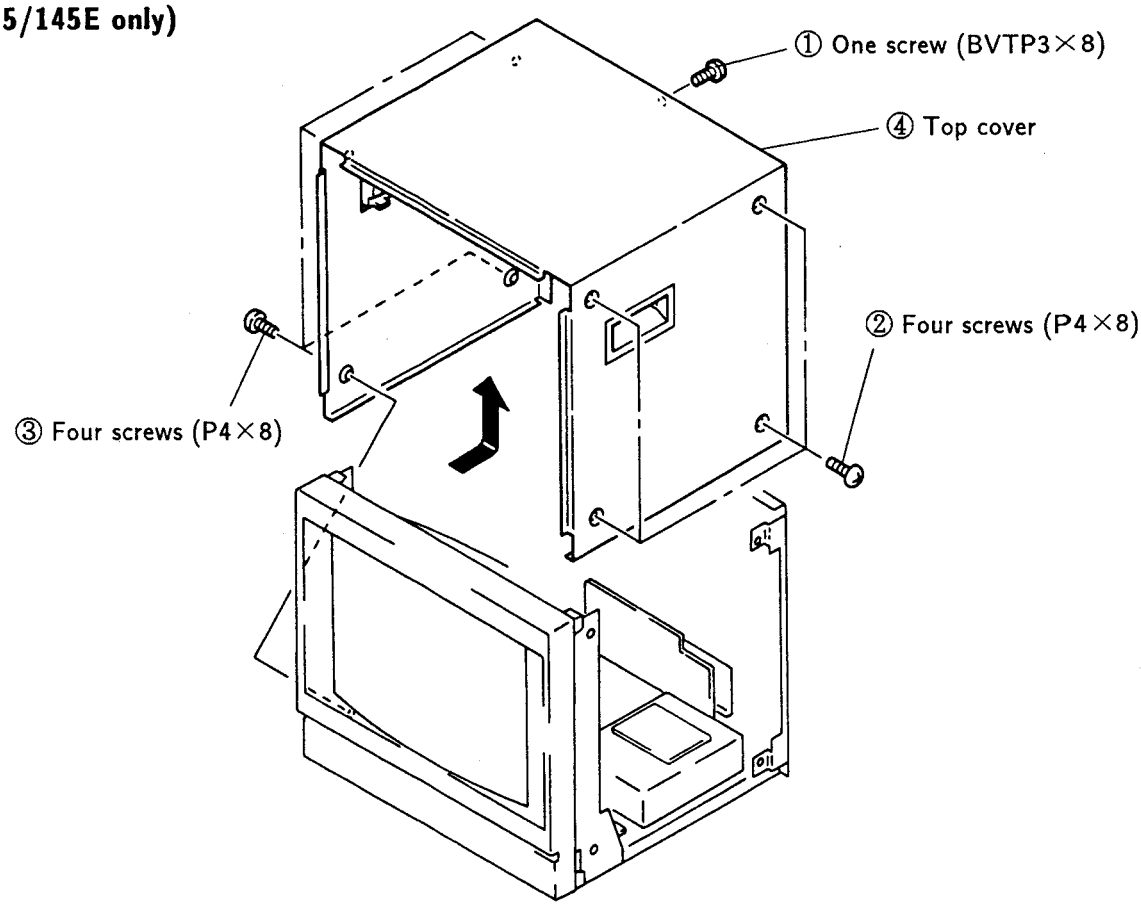
SECTION 2
DISASSEMBLY

2-1. TOP COVER REMOVAL

(PVM-95E only)

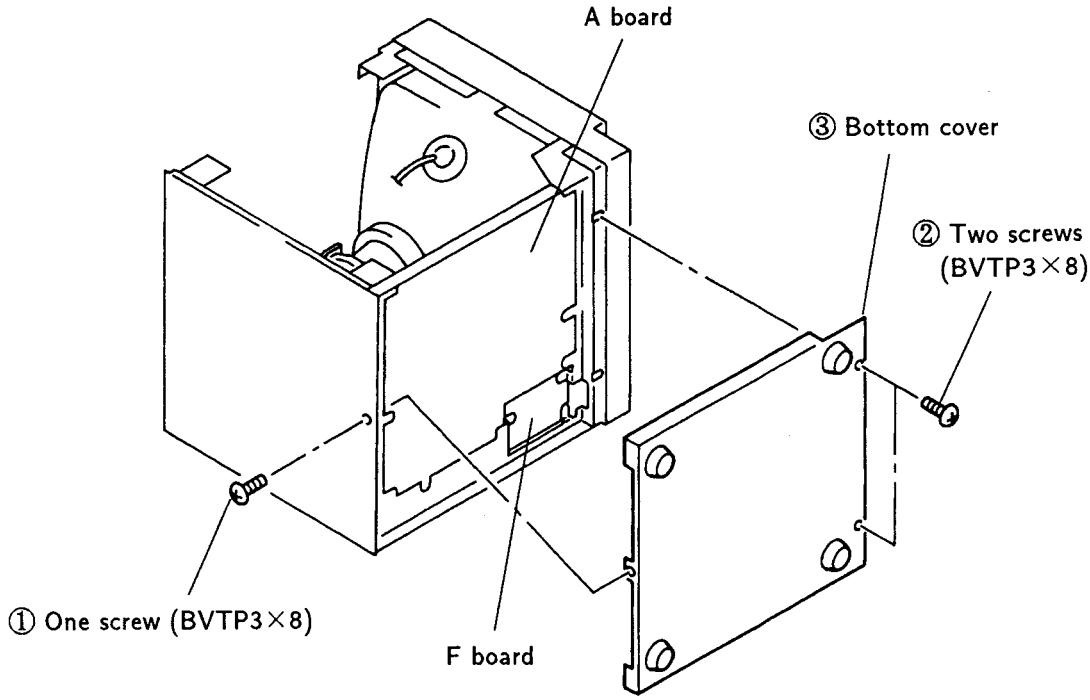


(PVM-135/145E only)

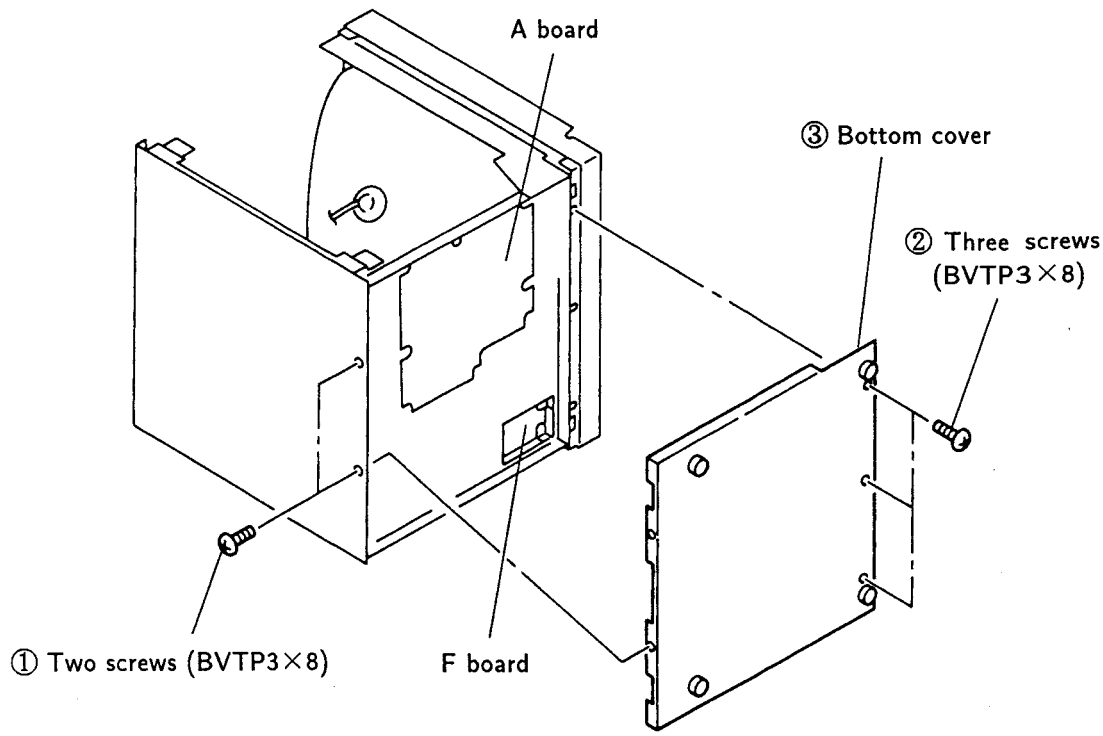


2-2. SERVICE POSITION

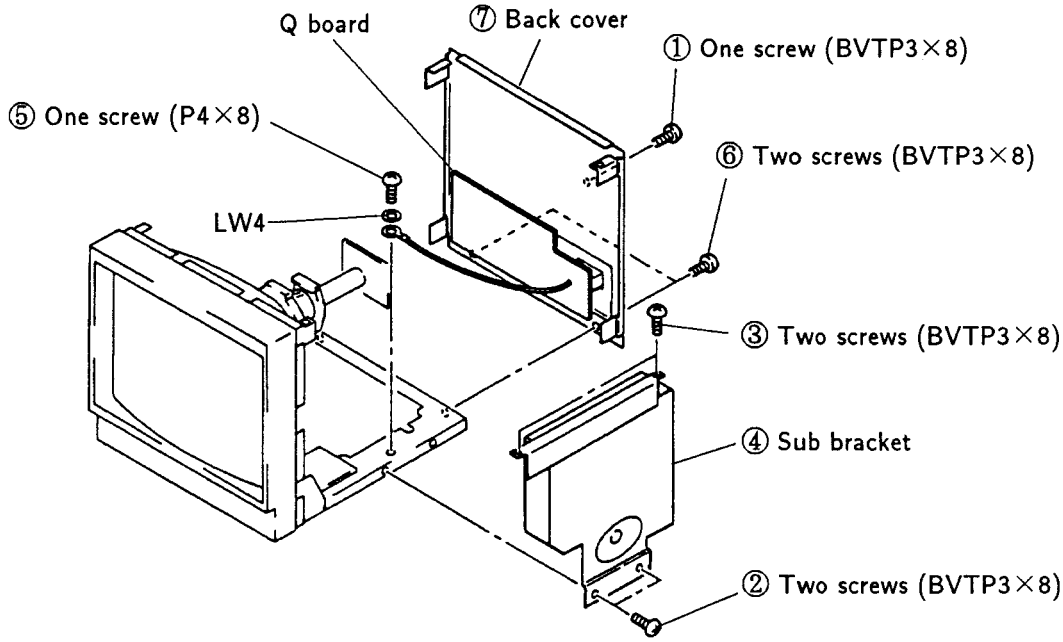
(PVM-95E only)



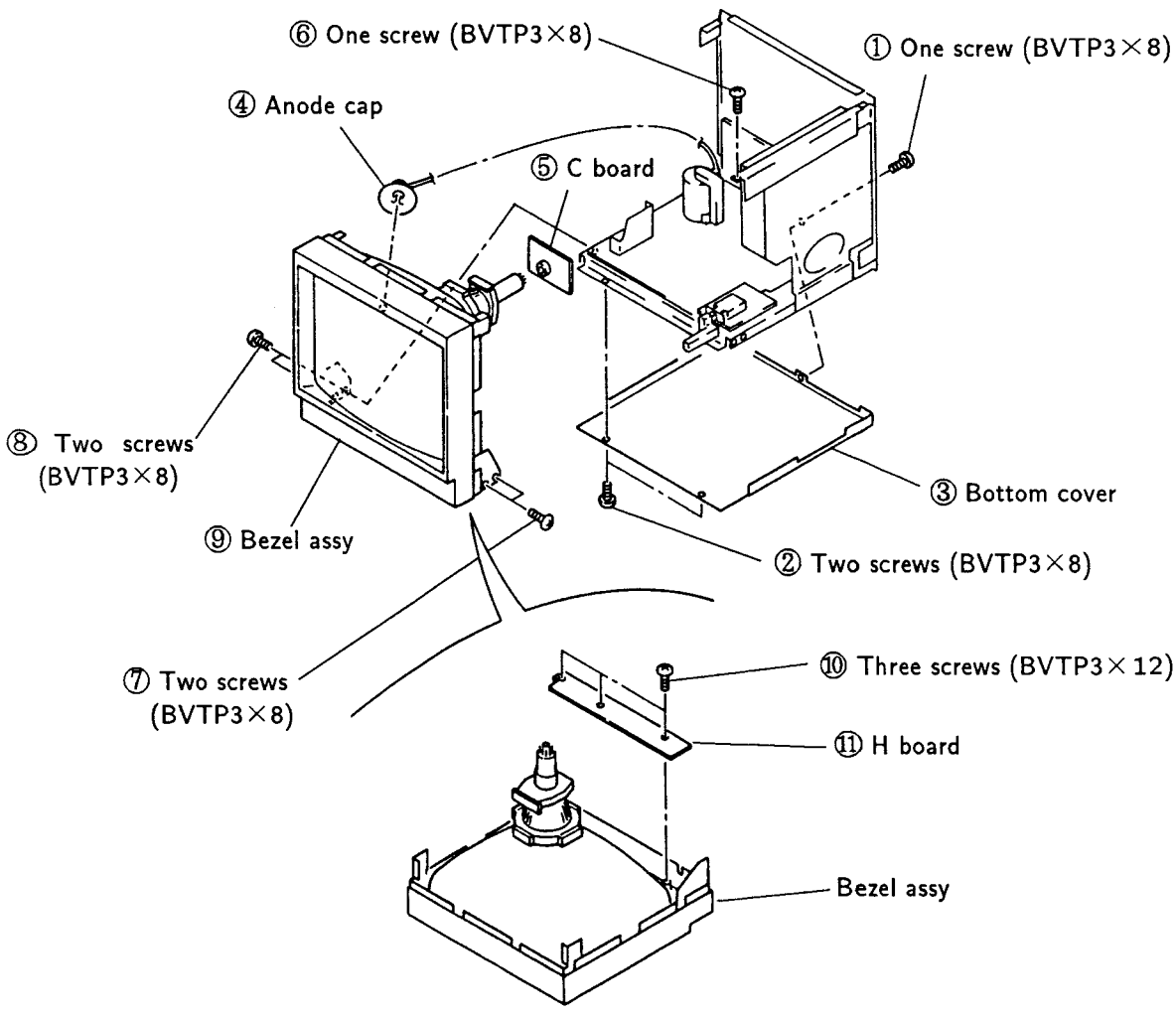
(PVM-135/145E only)



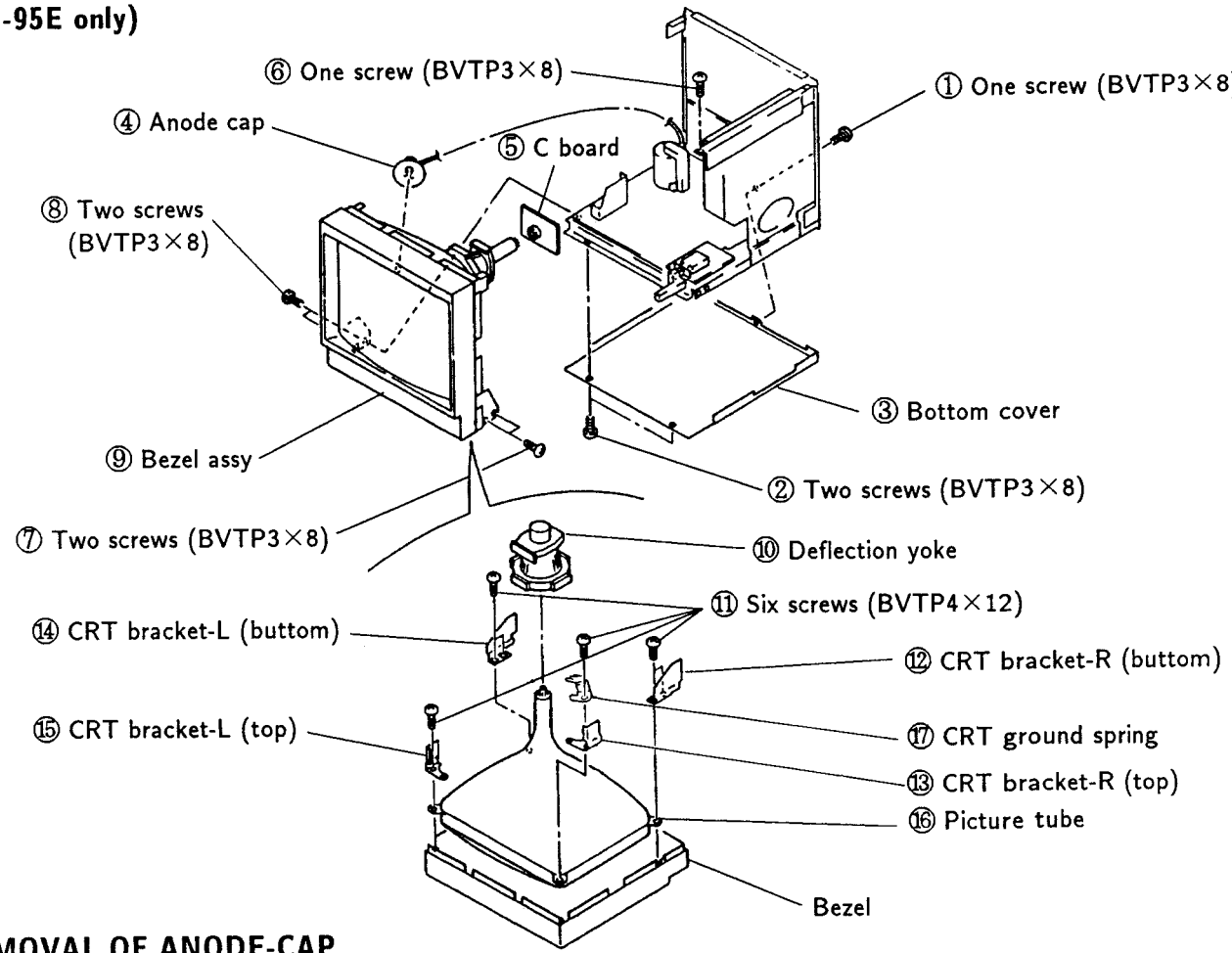
2-3. Q BOARD REMOVAL (PVM-95E only)



2-4. H BOARD REMOVAL (PVM-95E only)



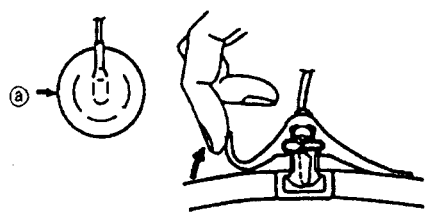
2-5. PICTURE TUBE REMOVAL
(PVM-95E only)



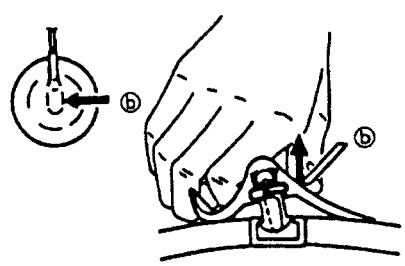
· REMOVAL OF ANODE-CAP

NOTE : Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT chield or carbon painted on the CRT, after removing the anode.

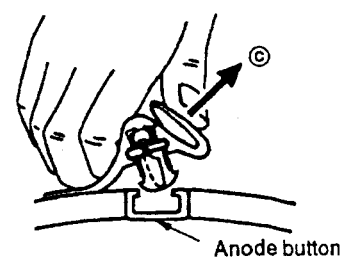
· REMOVING PROCEDURES



① Turn up one side of the rubber cap in the direction indicated by the arrow ⓐ.



② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ⓑ.



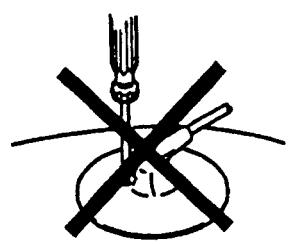
③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow ⓒ.

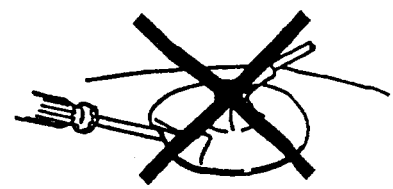
· HOW TO HANDLE AN ANODE-CAP

① Don't hurt the surface of anode-caps with sharp shaped material!

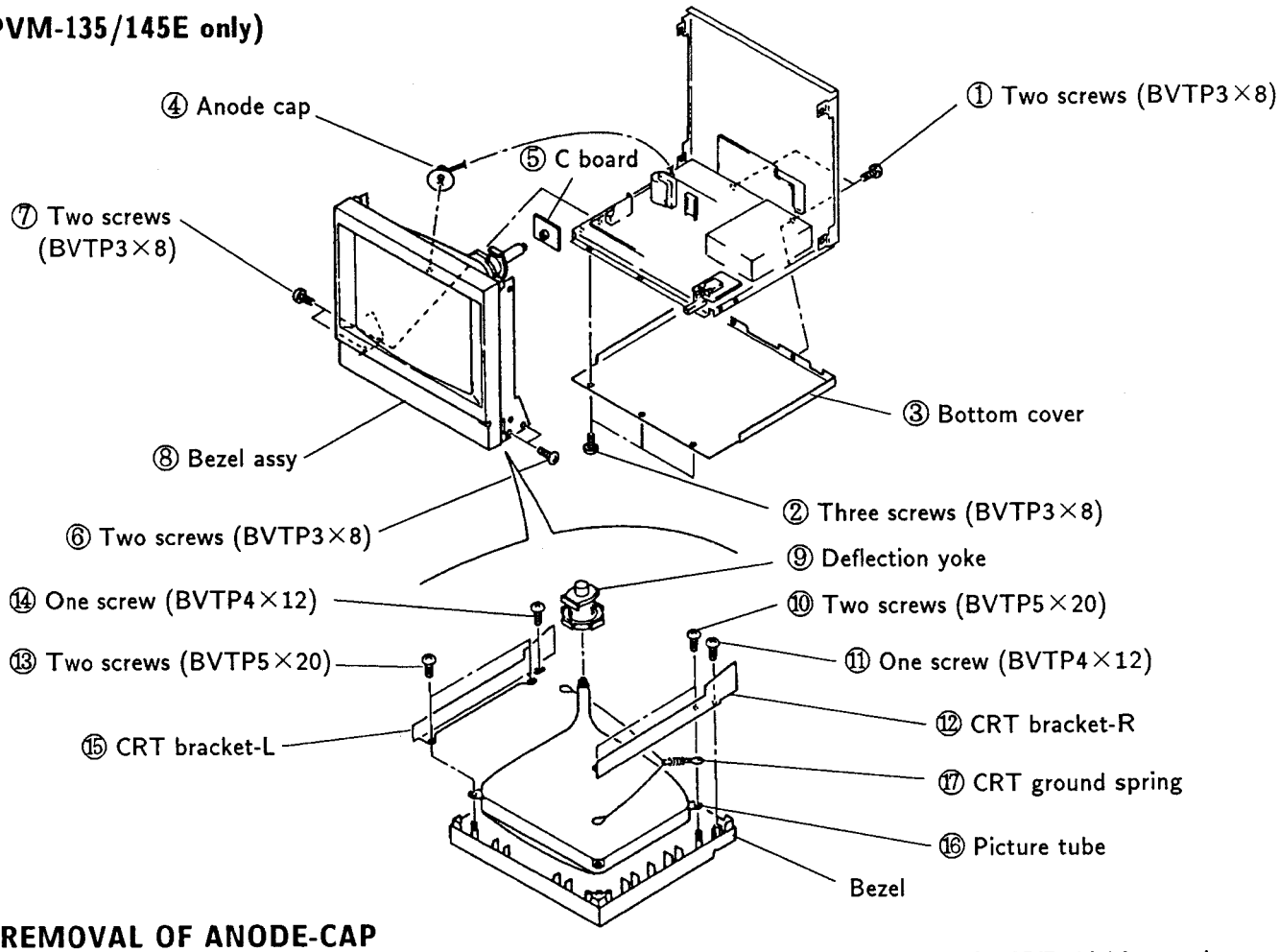
② Don't press the rubber hardly not to hurt inside of anode-caps!
A material fitting called as shatter-hook terminal is built in the rubber.

③ Don't turn the foot of rubber over hardly!
The shatter-hook terminal will stick out or hurt the rubber.





(PVM-135/145E only)



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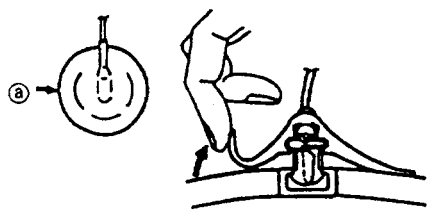

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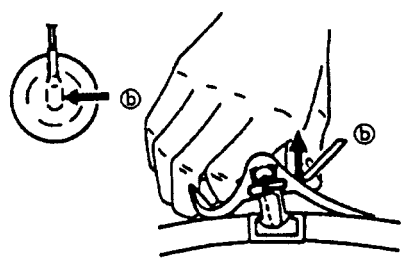

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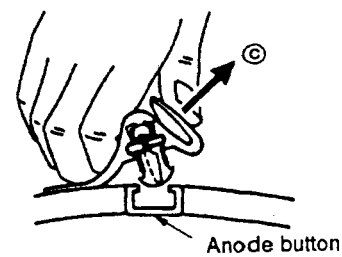

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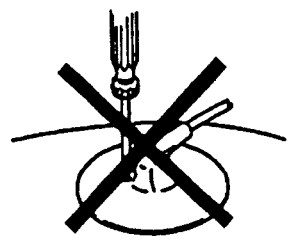
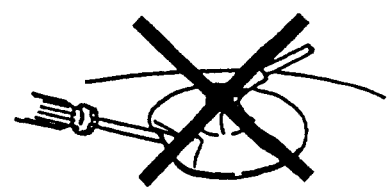




SECTION 3
SAFETY RELATED ADJUSTMENTS
(US Model only)

3-1. SAFETY RELATED ADJUSTMENT

B+ MAX CONFIRMATION (☒ : RV651)

The following adjustments should always be performed when replacing the folowing components (maked ◪ on the schematic diagram).

◪ on the G board : R656, R657, R658, RV651

1. Supply 120.0±2.0V AC to with variable auto-transformer.
2. Receive an entire white signal.
3. CONTRAST ····· normal
   BRIGHTNESS ····· normal
4. Connect a digital multimeter to the TP 2 (CN401 pin −①) on the A board.
5. Adjust RV651 on the G board for 24.0±0.2VDC.
6. After adjusting, fasten RV651 in place with epoxy.

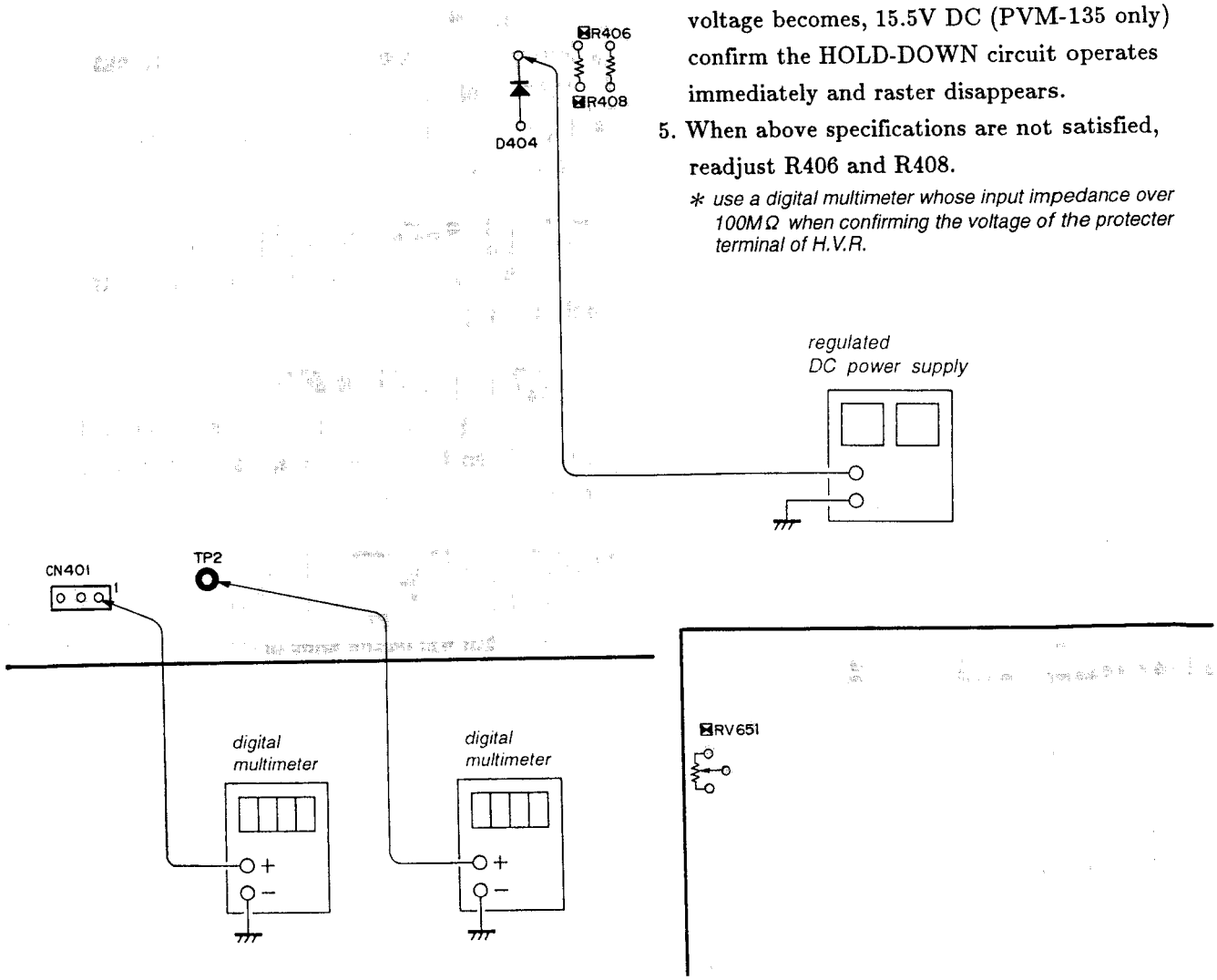
HOLD-DOWN CIRCUIT CONFIRMATION READJUSTMENTS (☒ : R406, R408)

The following adjustments should always be performed when replacing the folowing components (maked ◪ on the schematic diagram).

◪ on the A board :
C409, C410, C414, C415, C427, D405, L404, R406, R408, L901 (DY), T402 (FBT)

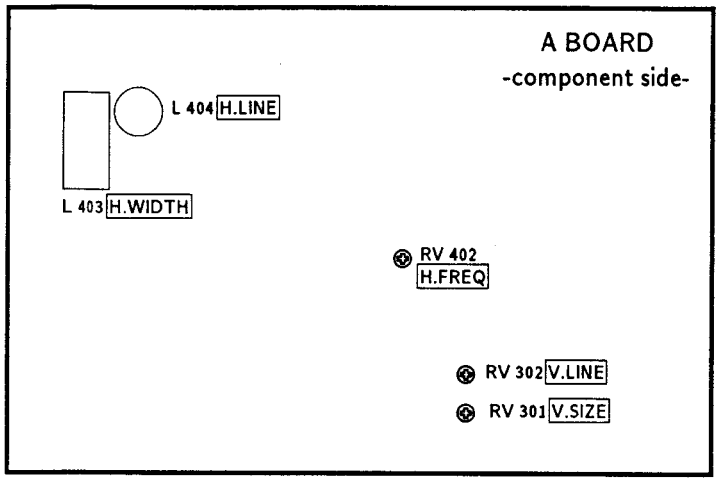
1. Supply 120.0±2.0V AC to with variable auto-transformer.
2. Receive an entire white signal.
3. CONTRAST ····· Minimum
   BRIGHTNESS ····· Minimum
4. Apply an external DC voltage gradually to cathod of D404 on the A board, When the voltage becomes, 15.5V DC (PVM-135 only) confirm the HOLD-DOWN circuit operates immediately and raster disappears.
5. When above specifications are not satisfied, readjust R406 and R408.

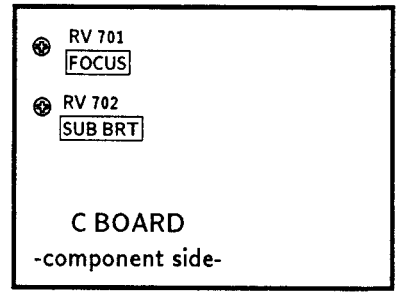
   ** use a digital multimeter whose input impedance over 100MΩ when confirming the voltage of the protecter terminal of H.V.R.*



SECTION 4
CIRCUIT ADJUSTMENTS

4-1. A AND C BOARDS ADJUSTMENT





ROUGH ADJUSTMENTS OF H. AND V. SIZE (L403, RV301)

1. Input monoscope signal into video signal input terminal of line A.
2. Loosen deflection yoke fixing screw to adjust tilted image and fasten screw after adjustment.
3. Make rough adjustments to obtain 15.5 frames in H. size and 12 frames in V. size by turning L403 (H. SIZE) and RV301 (V. SIZE) respectively.

HORIZONTAL OSCILLATING ADJUSTMENT (RV402)

1. Connect electrolytic capacitor of 10μF/25V between pin① of connector CN201 and grounding on "A" board.
2. Adjust RV402 (H. FREQ) to hold flowing image.

SUB BRIGHTNESS ADJUSTMENT (RV702)

1. Input gray scale signal into video signal input terminal of line A.
2. Set BRIGHT knob at the center and CONTR knob at the minimum position.
3. Adjust RV702 (SUB. BRT) on "C" board so that 20 IRE part of gray scale glows slightly.

ADJUSTMENT IMAGE DISTORTION

1. Input cross hatching signal into video signal input terminal of Line A.
2. Adjust vertical and horizontal pin distortions with disk magnet.
3. Input monoscope signal into video signal input terminal of line A.
4. Adjust with disk magnet until corner circle becomes to true circle.

ADJUSTMENT OF H. AND V. CENTER

Adjust horizontal center and vertical center with centering magnet.

H. LINE ADJUSTMENT (L 404)

Turn L 404 (H. LINE) on "A" board so that the horizontal length will be the same in either direction from the center of image.

V. LINE ADJUSTMENT (RV 302)

Turn RV302 (V. LINE) on "A" board so that the vertical length will be the same in either direction from the center of image.

H. AND V. SIZE FINE ADJUSTMENT (L 403, RV 301)

1. Input monoscope signal into video signal input terminal of line A.
2. Set BRIGHT knob at 50% position and CONTR knob at 80% position.
3. Turn L403 (H. WIDTH) and RV301 (V. SIZE) to obtain the following number of frames.

(PVM-95E only)

H. SIZE : 15.3 frames V. SIZE : 12.0 frames

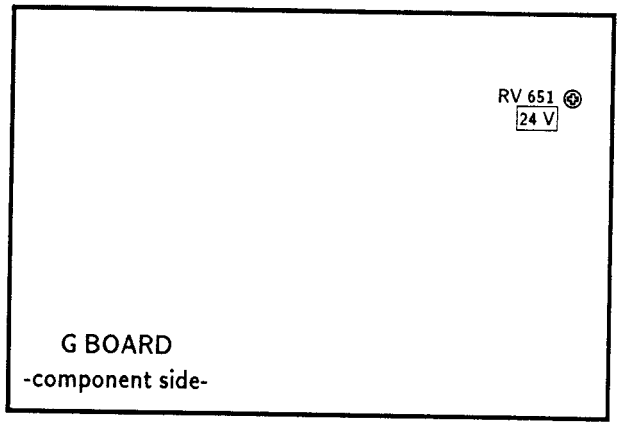
(PVM-135/145E only)

H. SIZE : 15.0 frames V. SIZE : 12.0 frames

FOCUS ADJUSTMENT (RV701)

1. Input monoscope signal into video signal input terminal of line A.
2. Set BRIGHT knob at 50% position and CONTR knob at 80% position.
3. Turn RV701 on "C" board to adjust mid point between the center and the corner becomes just in focus while watching focus balance of them.

4-2. G BOARD ADJUSTMENT



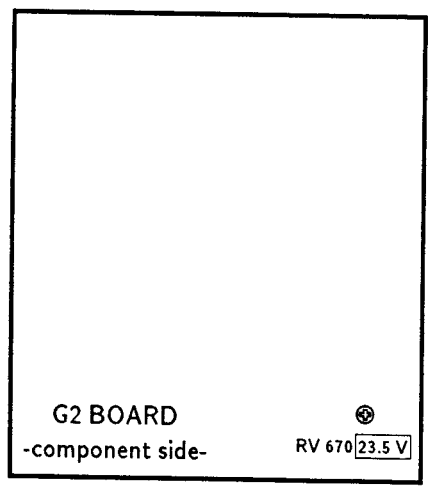
B+ LINE VOLTAGE ADJUSTMENT (RV 651)

Input voltage 120V AC : PVM-135 only

230V AC : PVM-95 E/145 E only

1. Input monoscope signal into video signal input terminal of line A.
2. Connect digital multimeter to pin① of CN501.
3. Turn RV651 to adjust it to 24.0 ± 0.2VDC.

4-3. G 2 BOARD ADJUSTMENT



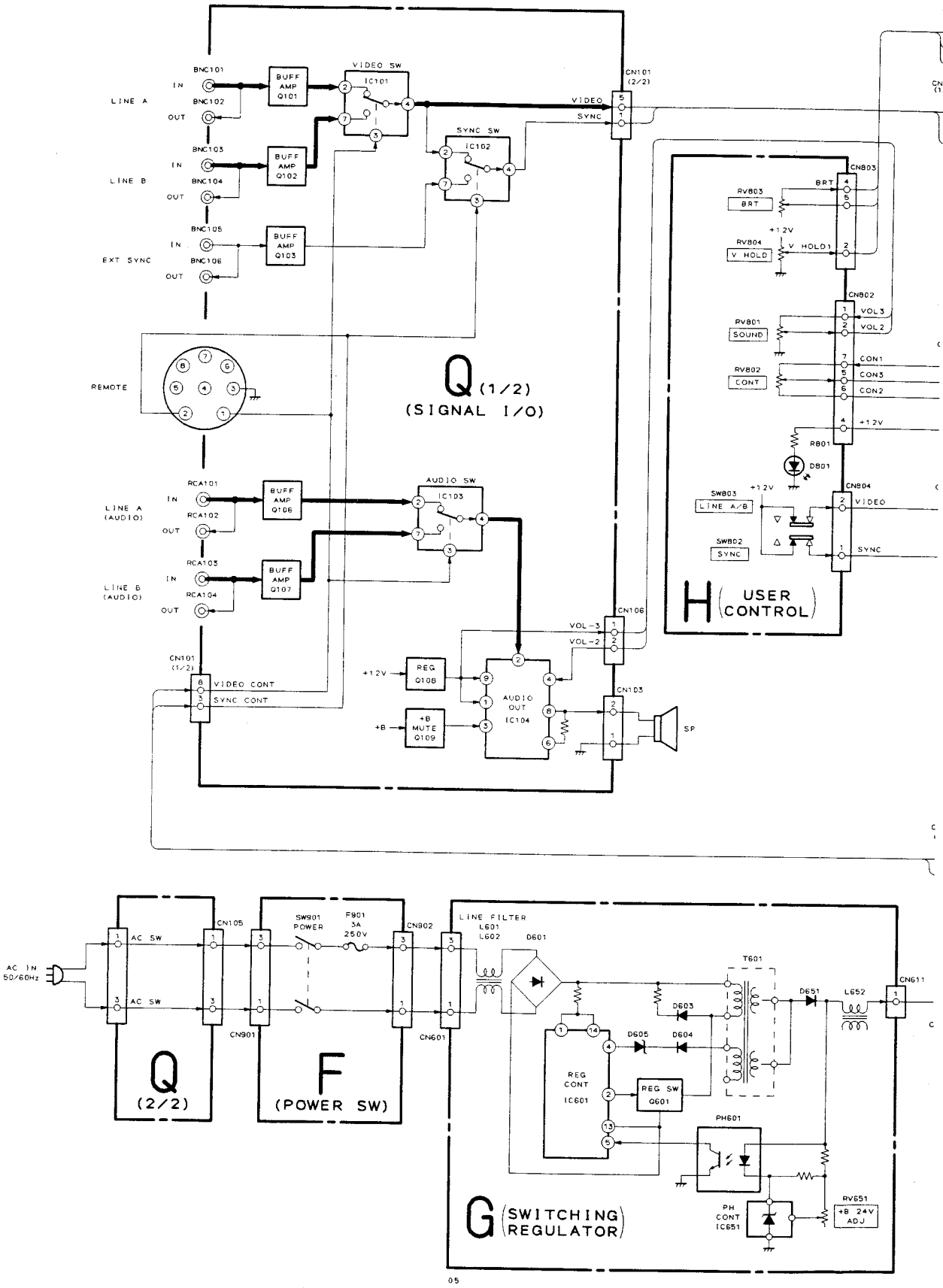
+23.5 V ADJUSTMENT (RV 670)

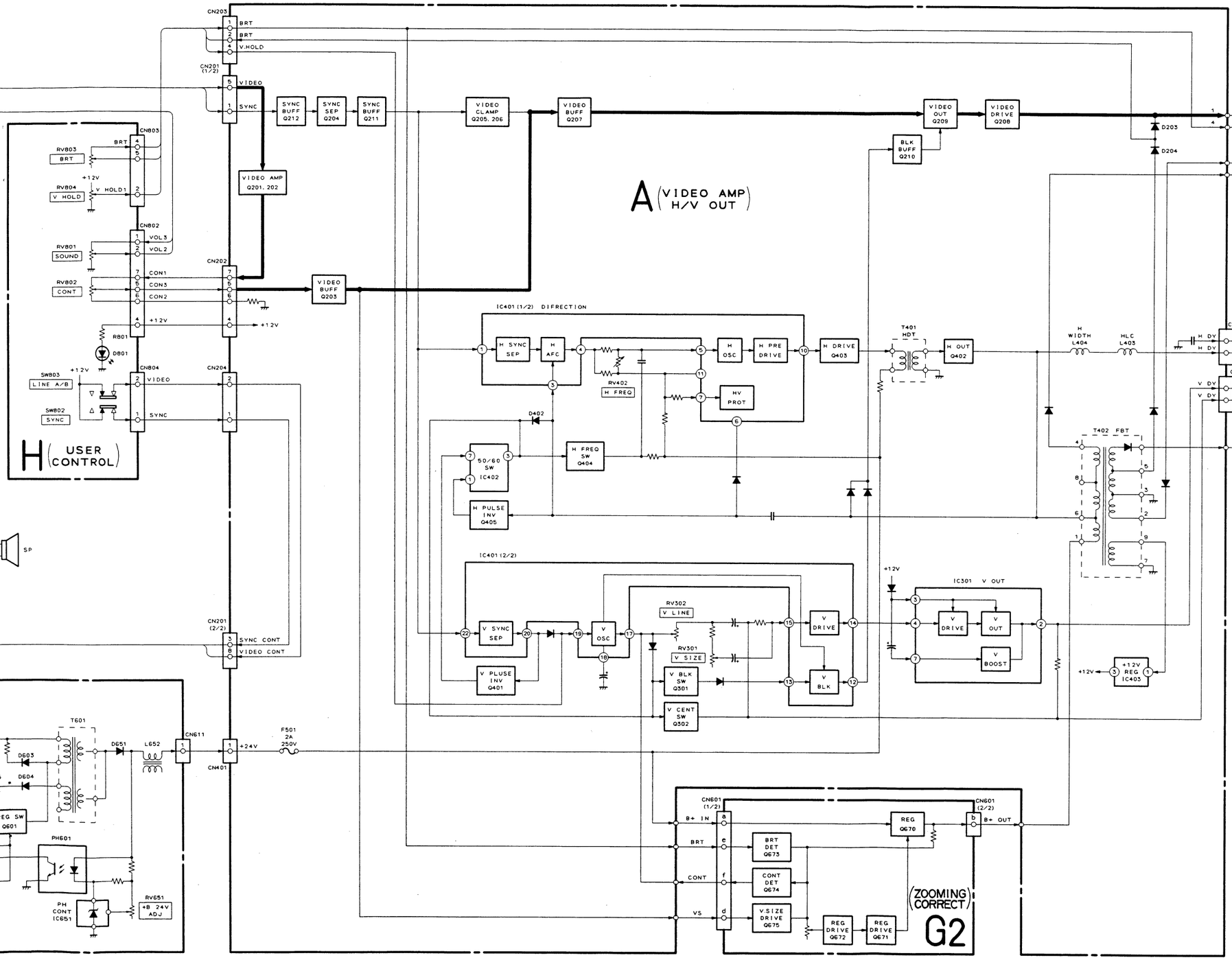
1. Input monoscope signal into video signal input terminal of line A.
2. Connect digital multimeter to emitter of Q 670.
3. Confirm the voltage is 24.0 ± 0.2VDC.
4. BRIGHT ····· Minimum

   CONTR ····· Minimum
5. Connect a digital multimeter to the collector of Q670.
6. Turn RV 670 to adjust it to 23.5 ± 0.1 VDC.

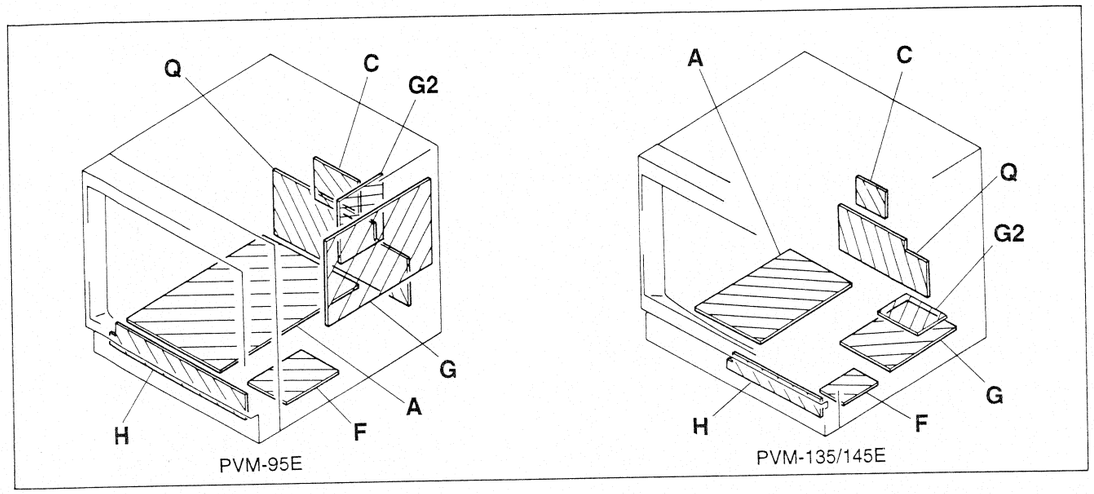
SECTION 5
DIAGRAMS

5-1. BLOCK DIAGRAM




CN203
BRT
BRT
V.HOLD
CN201 (1/2)
VIDEO
SYNC
SYNC BUFF Q212
SYNC SEP Q204
SYNC BUFF Q211
VIDEO CLAMP Q205, 206
VIDEO BUFF Q207
VIDEO OUT Q209
VIDEO DRIVE Q208
BLK BUFF Q210
VIDEO AMP Q201, 202
VIDEO BUFF Q203
A (VIDEO AMP H/V OUT)
D203
D204
C (VIDEO OUT)
RV702 SUB BRT
+12V
RV701 FOCUS
V901 9"C-9DD1SWH2 14"C-14D1SWH2 PICTURE TUBE
CN803
RV803 BRT
RV804 V HOLD
V HOLD1
CN802
RV801 SOUND
VOL3
VOL2
RV802 CONT
CON1
CON3
CON2
+12V
R801
D801
CN804
SW803 LINE A/B
SW802 SYNC
VIDEO
SYNC
CN202
CN204
H (USER CONTROL)
SP
IC401 (1/2) DIFRECTION
H SYNC SEP
H AFC
RV402 H FREQ
H OSC
H PRE DRIVE
H DRIVE Q403
T401 HDT
H OUT Q402
HV PROT
D402
H FREQ SW Q404
50/60 SW IC402
H PULSE INV Q405
H WIDTH L404
HLC L403
CN402
H DY
CN404
V DY
DY
L801
T402 FBT
IC401 (2/2)
RV302 V LINE
RV301 V SIZE
V SYNC SEP
V OSC
V PULSE INV Q401
V BLK SW Q301
V CENT SW Q302
V DRIVE
V BLK
IC301 V OUT
V DRIVE
V OUT
V BOOST
+12V REG IC403
CN201 (2/2)
SYNC CONT
VIDEO CONT
T601
D603
D604
EG SW Q601
PH601
PH CONT IC651
RV651 +8 24V ADJ
D651
L652
CN611
CN401
+24V
F501 2A 250V
CN601 (1/2)
B+ IN
BRT
CONT
VS
BRT DET Q673
CONT DET Q674
V SIZE DRIVE Q675
REG DRIVE Q672
REG DRIVE Q671
REG Q670
CN601 (2/2)
B+ OUT
ZOOMING CORRECT
G2

5-2. CIRCUIT BOARDS LOCATION



5-3. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

Note:

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics.
- Indication of resistance, which does not have one for rating electrical power, is as follows.

  Pitch: 5 mm
  Rating electrical power 1/4W

- All resistors are in ohms.
- ▭: nonflammable resistor.
- ▭: fusible resistor.
- △: internal component.
- ▭: panel designation.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- The components identified by ⊠ in this basic schematic diagram have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
- When replacing components identified by ◪, make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by ⊠ and repeat the adjustment until the specified value is achieved. (Refer to RV651,and R406,R408 adjust on page 11.)
- When replacing the part in below table be sure to parform the related adjustment.

Part replaced(◪)	Adjustment(⊠)
G BOARD RV651,R656,R657,R658	RV651 (B+ MAX)
A BOARD C409,C410,C414,C415,C427,D405,L404, R406,R408,L901(DY),T402(FBT)	R406,R408 (HOLD-DOWN)

- All voltages are in V.
- Voltage are dc with respect to ground unless otherwise noted.
- Readings are taken with a color-bar signal input.
- ▭: adjustment for repair.
- Voltage variations may be noted due to normal production tolerance.
- ▬: B+ bus.
- ▪ ▪ ▪: B- bus.
- ➡: signal path.
- Color-bar signal received or common voltage.

Reference information

RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFLAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RS	NONFLAMMABLEWIREWOUND
	: RB	NONFLAMMABLE CEMENT
COIL	: LF-8L	MICRO INDUCTOR

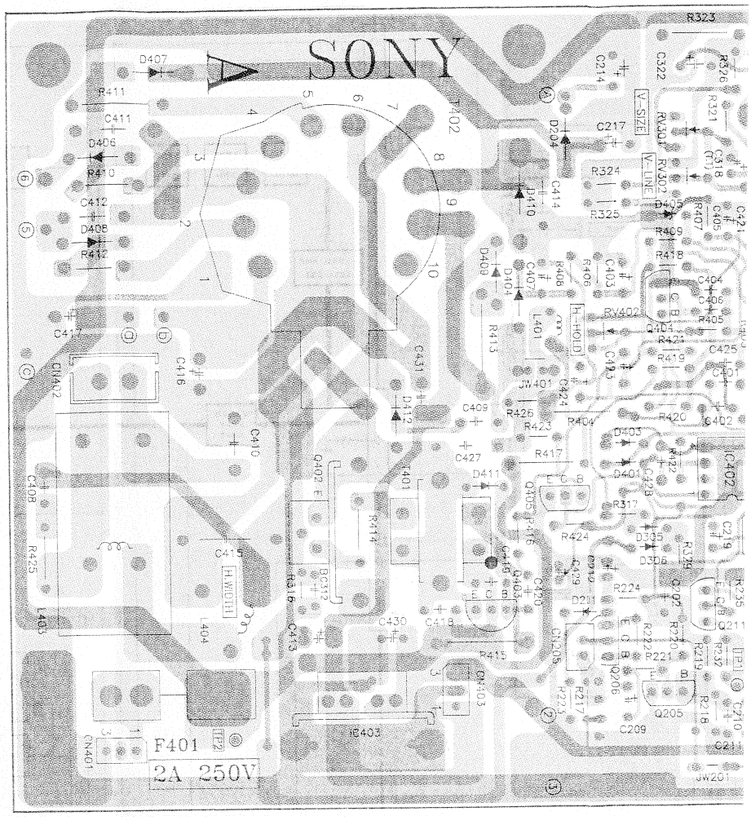
CAPACITOR :

	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ALB	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE

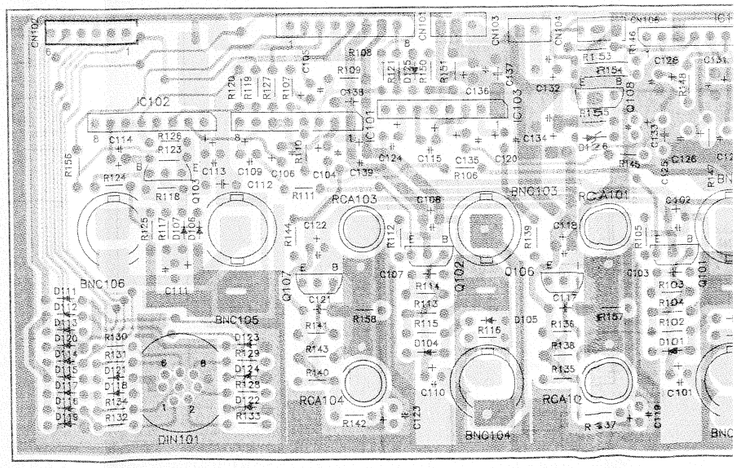
Note:
The components identified by shading and mark⚠ are critical for safety. Replace only with part number specified.

Note:
Les composants identifiés par un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

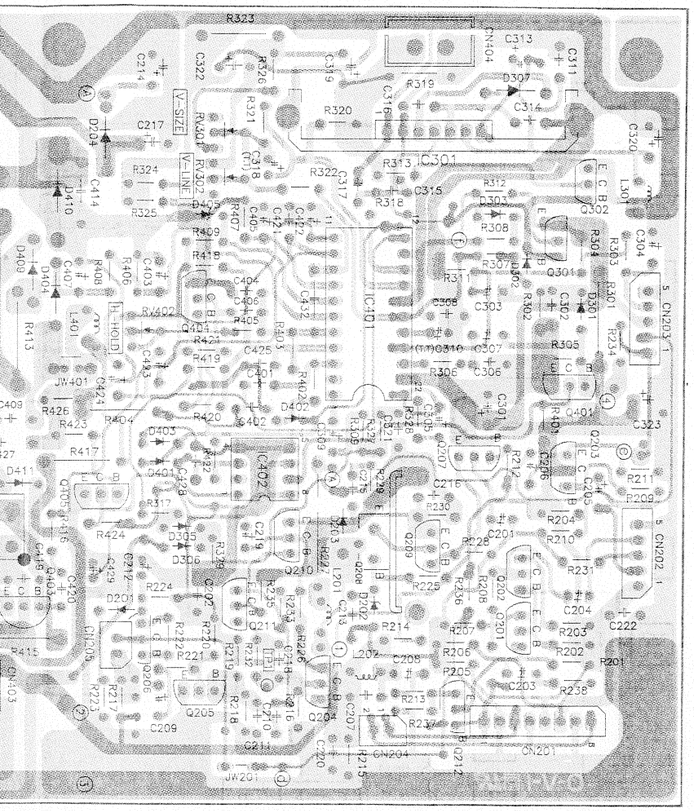
- A Board -



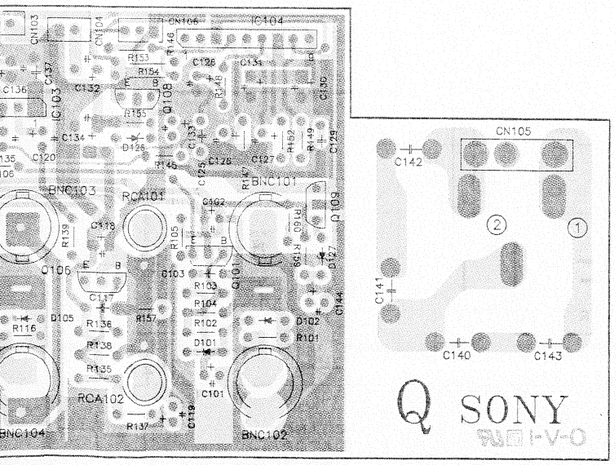
- Q Board -



G [SWITCHING REGULATOR] **H** [USER CONTROL] **F** [POWER SWITCH] **C** [VIDEO OUT] **G2** [ZOOMING CORRECT]

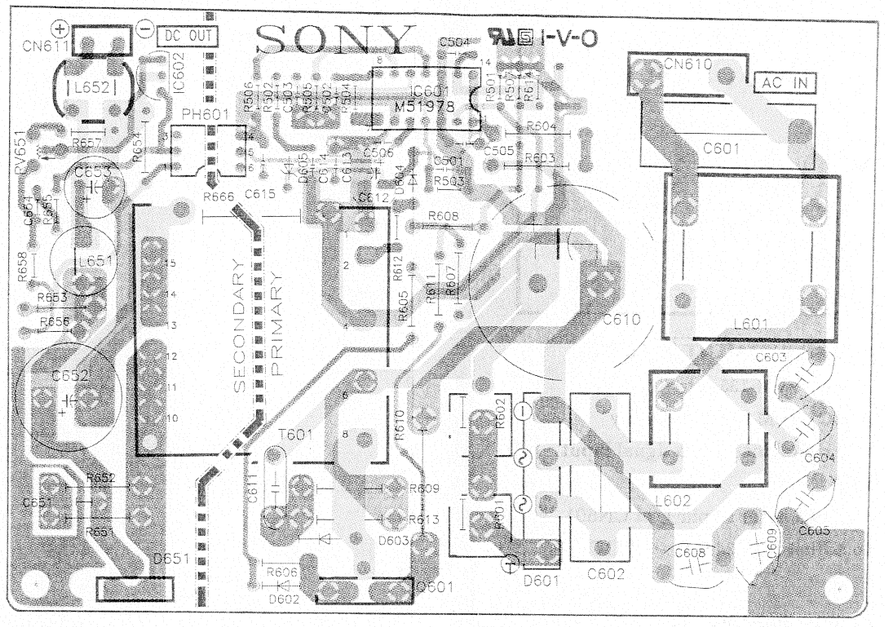


・ : Pattern from the side which enables seeing.
・ : Pattern of the rear side.



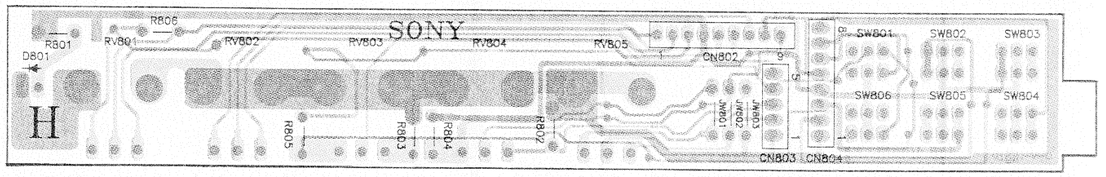
・ : Pattern from the side which enables seeing.
・ : Pattern of the rear side.

- G Board -



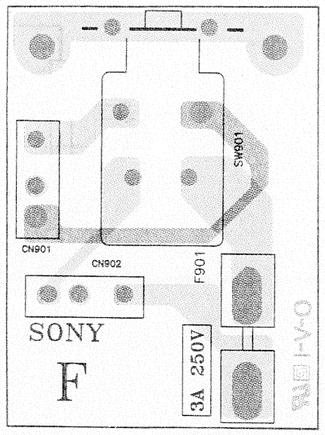
・ : Pattern from the side which enables seeing.
・ : Pattern of the rear side.

- H Board -



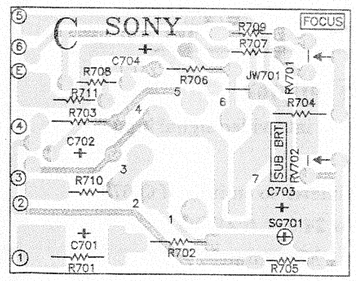
・ : Pattern from the side which enables seeing.
・ : Pattern of the rear side.

- F Board -



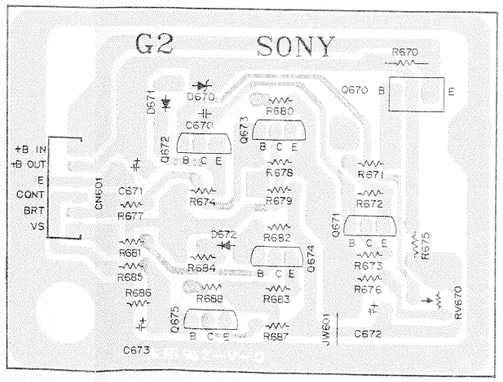
・ : Pattern from the side which enables seeing.
・ : Pattern of the rear side.

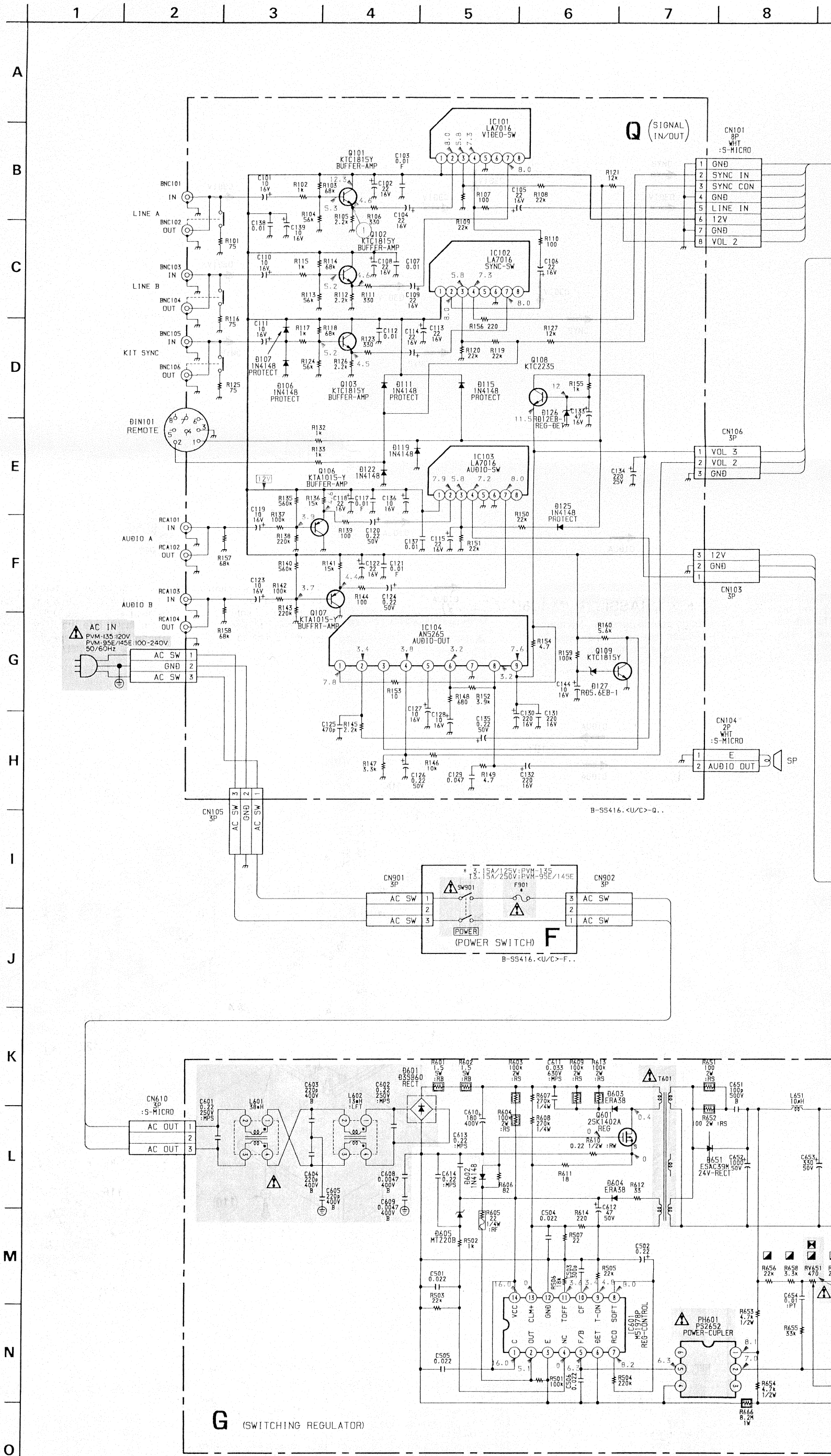
- C Board -



・ : Pattern from the side which enables seeing.
・ : Pattern of the rear side.

- G2 Board -




Q (SIGNAL IN/OUT)
IC101 LA7016 VIDEO-SW
Q101 KTC1815Y BUFFER-AMP
Q102 KTC1815Y BUFFER-AMP
IC102 LA7016 SYNC-SW
Q103 KTC1815Y BUFFER-AMP
Q108 KTC2235
IC103 LA7016 AUDIO-SW
Q106 KTA1015-Y BUFFER-AMP
Q107 KTA1015-Y BUFFRT-AMP
IC104 AN5265 AUDIO-OUT
Q109 KTC1815Y
BNC101 IN
BNC102 OUT
LINE A
BNC103 IN
BNC104 OUT
LINE B
BNC105 IN
BNC106 OUT
KIT SYNC
DIN101 REMOTE
RCA101 IN
RCA102 OUT
AUDIO A
RCA103 IN
RCA104 OUT
AUDIO B
AC IN
PVM-135:120V
PVM-95E/145E:100-240V
50/60Hz
CN101 8P WHT :S-MICRO
1 GND
2 SYNC IN
3 SYNC CON
4 GND
5 LINE IN
6 12V
7 GND
8 VOL 2
CN106 3P
1 VOL 3
2 VOL 2
3 GND
CN103 3P
3 12V
2 GND
1
CN104 2P WHT :S-MICRO
1 E
2 AUDIO OUT
SP
CN105 3P
AC SW
GND
AC SW
CN901 3P
CN902 3P
SW901
F901
POWER
(POWER SWITCH) F
* 3.15A/125V:PVM-135
T3.15A/250V:PVM-95E/145E
B-SS416.<U/C>-Q..
B-SS416.<U/C>-F..
CN610 3P :S-MICRO
AC OUT
AC OUT
T601
IC601 MS1978P REG-CONTROL
PH601 PS2652 POWER-CUPLER
G (SWITCHING REGULATOR)

Q (SIGNAL IN/OUT)

IC101 LA7016 VIDEO-SW
IC102 LA7016 SYNC-SW
IC103 LA7016 AUDIO-SW
IC104 AN5265 AUDIO-OUT

CN101 8P WHT :S-MICRO
1 GND
2 SYNC IN
3 SYNC CON
4 GND
5 LINE IN
6 12V
7 GND
8 VOL 2

CN106 3P
1 VOL 3
2 VOL 2
3 GND

CN103 3P
3 12V
2 GND
1

CN104 2P WHT :S-MICRO
1 E
2 AUDIO OUT
SP

B-SS416.<U/C>-Q..

CN802 8P
1 VOL-3
2 VOL-2
3 GND
4 +12V
5 CON 1
6 CON 2
7 CON 3
8 GND

CN803 5P
1 BRT-3
2 BRT-2
3 12V
4 V-HOLD
5 GND

CN804 2P
1 LINE CON
2 SYNC CON

SOUND RV801 20k
CONT RV802 500
BRT RV803 100k
V-HOLD RV804 20k
LINE A/B S803
SYNC S802

H (USER CONTROL)

B-SS416.<U/C>-H..

CN201 8P
SYNC IN 1
GND 2
SYNC CON 3
GND 4
LINE IN 5
12V 6
GND 7
VOL 2 8

CN202 5P
+12V 1
CON 1 2
CON 2 3
CON 3 4
GND 5

CN203 5P
BRT-3 1
BRT-2 2
12V 3
V-HOLD 4
GND 5

CN204 2P
LINE CON 1
SYNC CON 2

CN401 3P
+24V 1
2
GND 3

CN403 3P
3 +12V
2 GND
1

CN611 3P WHT :S-MICRO
1 +24V
2
3 GND

Q202 KTA1015 VIDEO-AMP-2
Q212 KTA1815
Q201 KTC1815Y VIDEO-AMP-1
Q204 KTA1015 SYNC-SEP
Q211 DTA144ES SYNC-BUFFER
Q401 DTC144ES V.PULSE-SW
Q405 DTC144 H.PULSE
Q404 DTC144 H.FREQ-SW
IC401 μPC1377C DIFRECTION
IC402 CX23025 50/60HZ-SW
IC601 M51978P REG-CONTROL
IC651 KIA431 PHOT CUPLER-CONTROL
PH601 PS2652 POWER-CUPLER
Q601 2SK1402A REG
Q108 KTC2235
Q109 KTC1815Y

D111 1N4148 PROTECT
D115 1N4148 PROTECT
D119 1N4148
D125 1N4148 PROTECT
D126 RD12EB-1 REG-DET
D127 RD5.6EB-1
D801 KLG124E POWER-IND
D301 1N4148
D302 1N4148
D401 1N4148 PROTECT
D402 1N4148
D403 1N4148 PROTECT
D404 FR104
D601 D3SB60 RECT
D602 1N4148
D603 ERA38
D604 ERA38
D605 MTZ20B
D651 ESAC39M 24V-RECT

F901 3.15A/125V:PVM-135 T3.15A/250V:PVM-95E/145E
SW901 POWER (POWER SWITCH)
F401 *2A/125V:PVM-135 2A/250V:PVM-95E/

CN901 3P AC SW 1 / AC SW 3
CN902 3P 3 AC SW / 2 / 1 AC SW

F

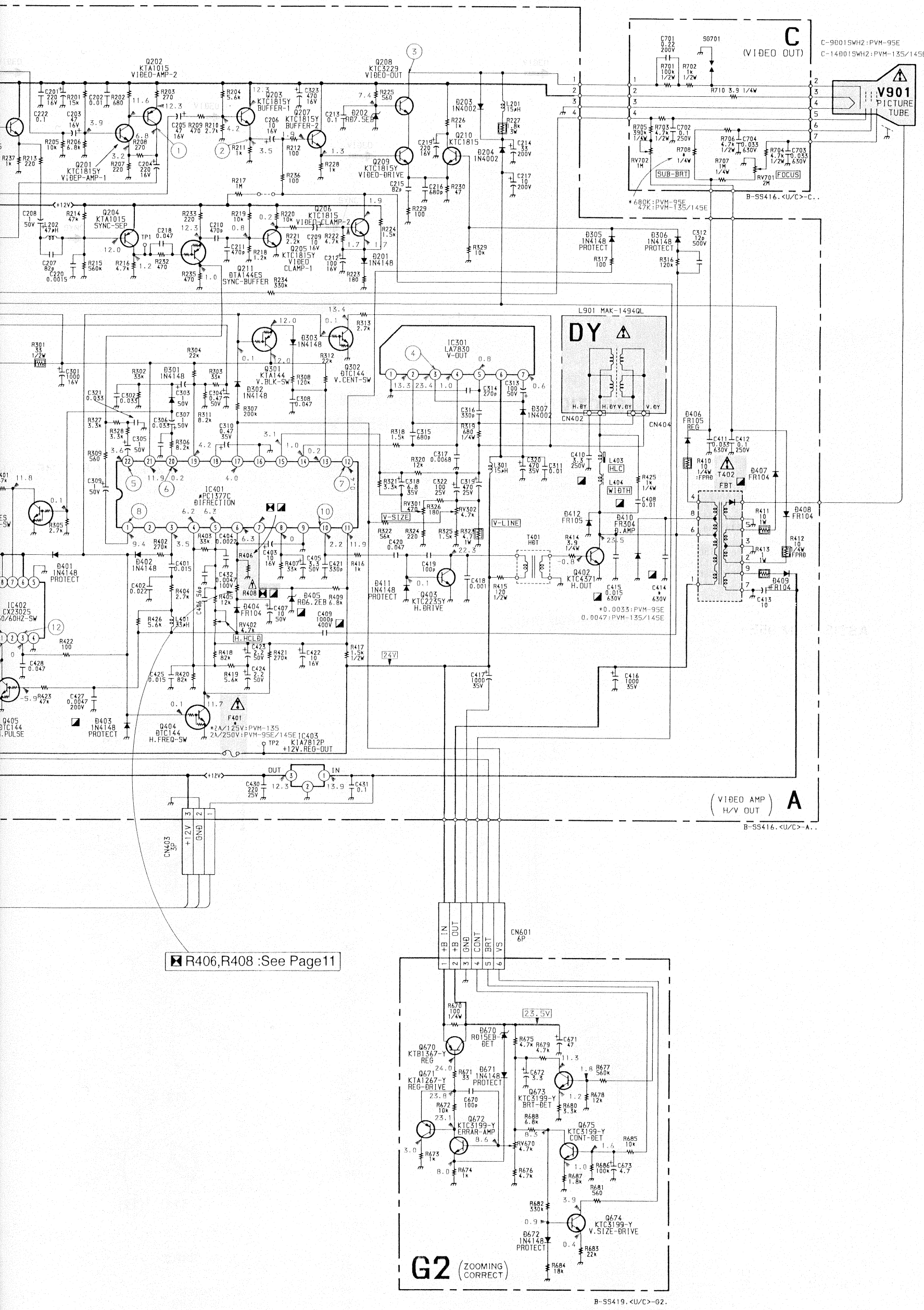
B-SS416.<U/C>-F..

T601

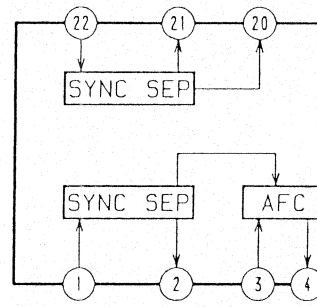
R406,R408 :See

RV651 : See Page11

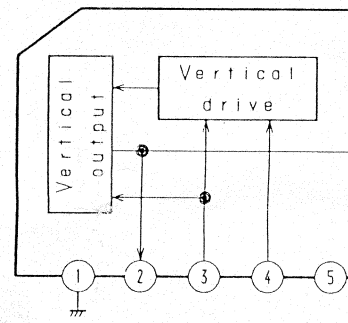
B-SS416.<U/C>-G..



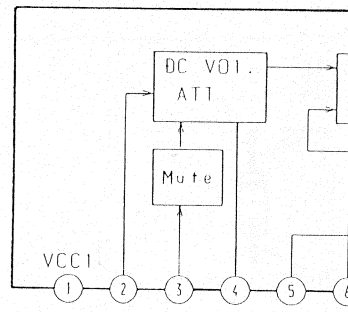
A BOARD IC401 UPC



A BOARD IC301 LA783



Q BOARD IC104 AN526

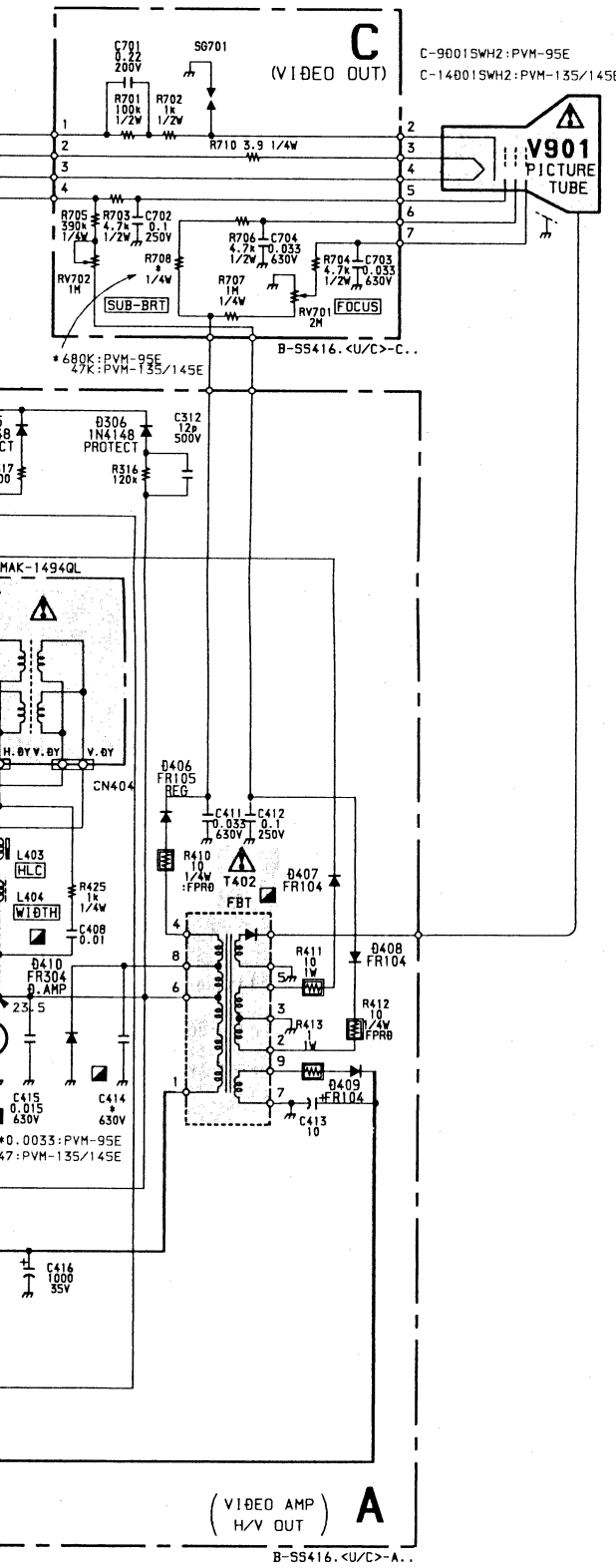


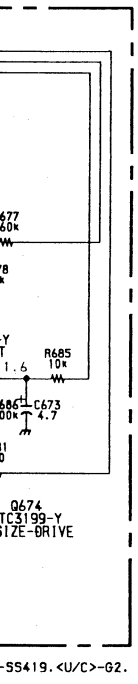
A BOARD WAVEFORM

① 1.7 Vp-p (H)	② 1.3 V
④ 40.0 Vp-p (V)	⑤ 0.25 V
⑦ 7.8 Vp-p (V)	⑧ 2.5 V
⑩ 5.6 Vp-p (H)	⑪ 12.5 V

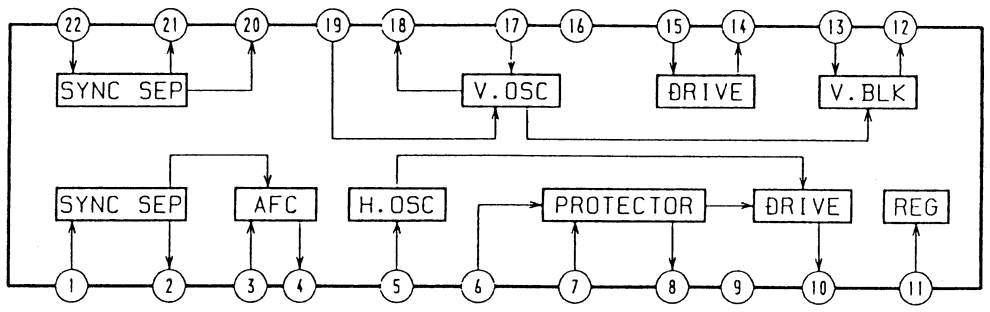
Q BOARD WAVEFORM

① 0.8 Vp-p (H)

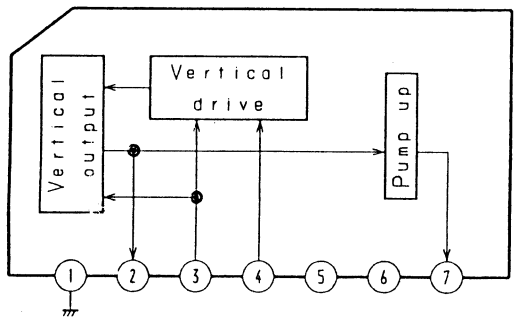




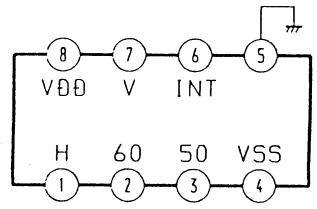
A BOARD IC401 UPC1377C



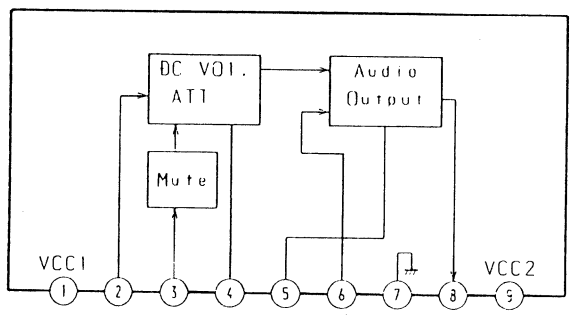
A BOARD IC301 LA7830



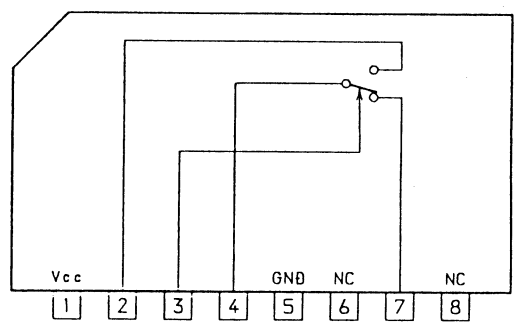
A BOARD IC402 CX23025



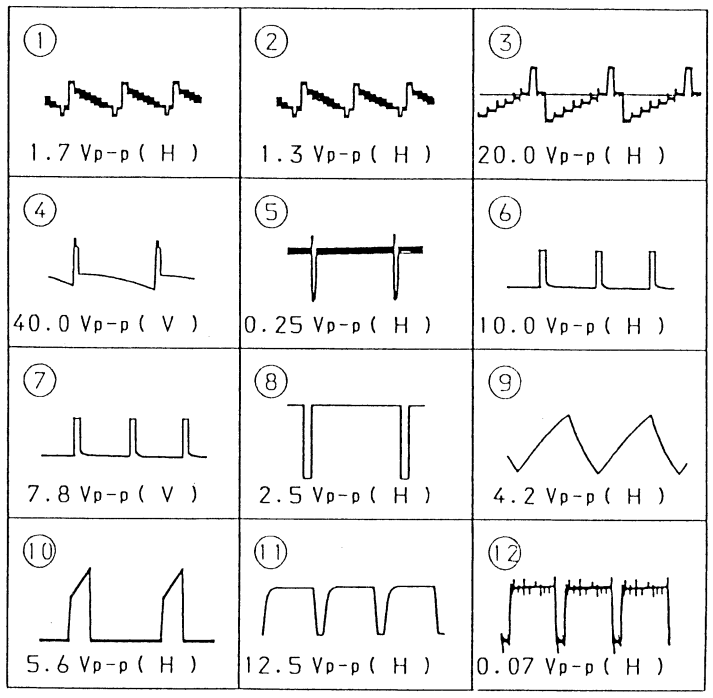
Q BOARD IC104 AN5265



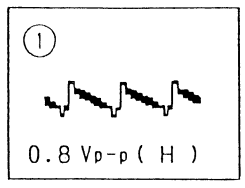
Q BOARD IC101,102,103 LA7016



A BOARD WAVEFORMS

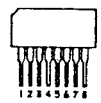


Q BOARD WAVEFORMS

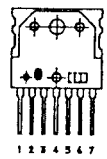


5-4. SEMICONDUCTORS

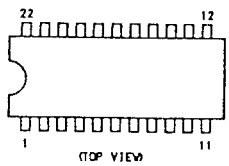
LA7016



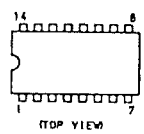
LA7830



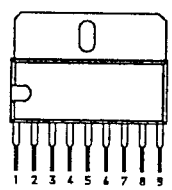
μPC1377C



M51978



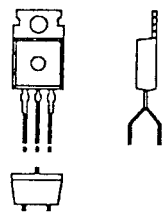
AN5265



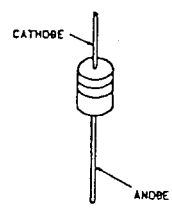
ÐTA144ES
ÐTC124ES

KTC1815
2SA733-K
2SA1015
2SC1815-GR

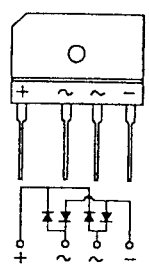
2SK1402A



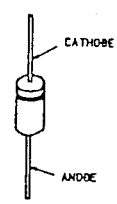
ERA38-06
RÐ20ESB2
1SS199



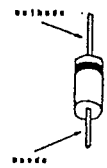
Ð3SB60



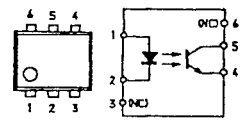
FR104



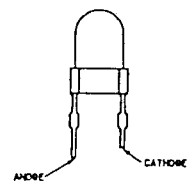
FR105
FR304



TLP732GR-LF2



SEL3810ÐLC05



KLG124E

SECTION 6
EXPLODED VIEWS

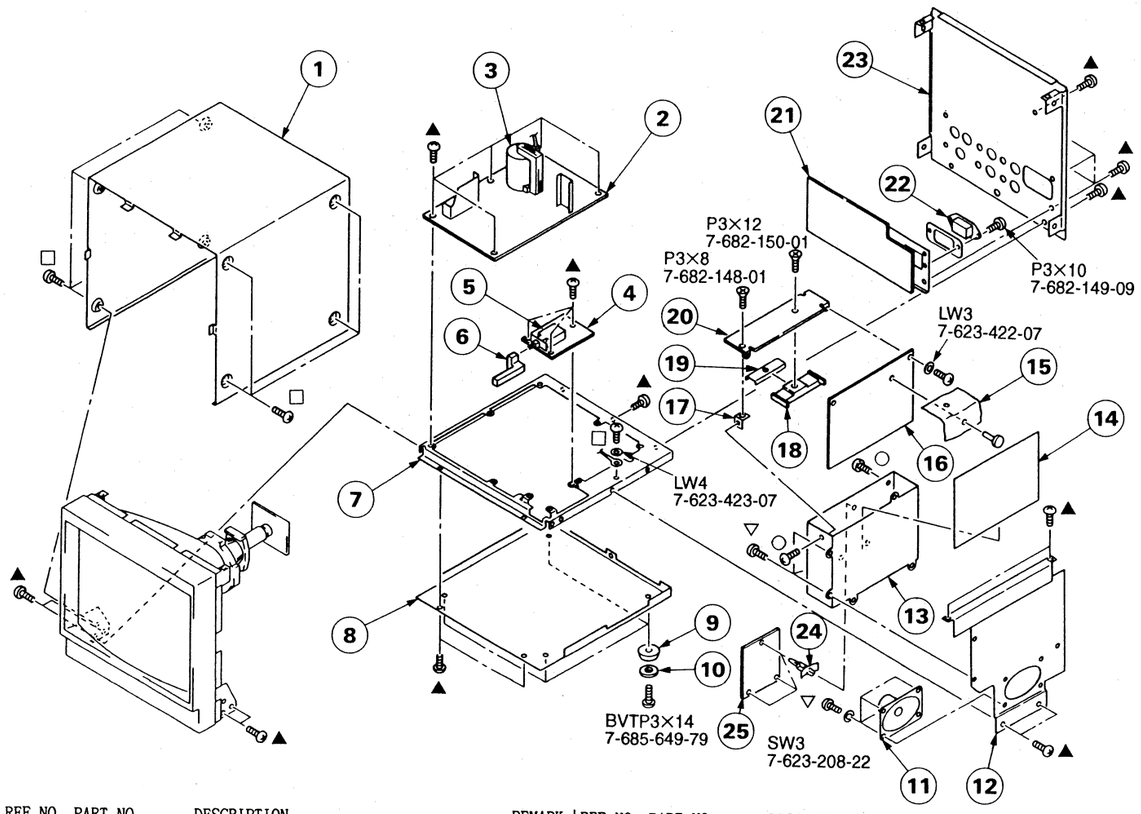
NOTE:
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " ★ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

6-1. CHASSIS (PVM-95E only)

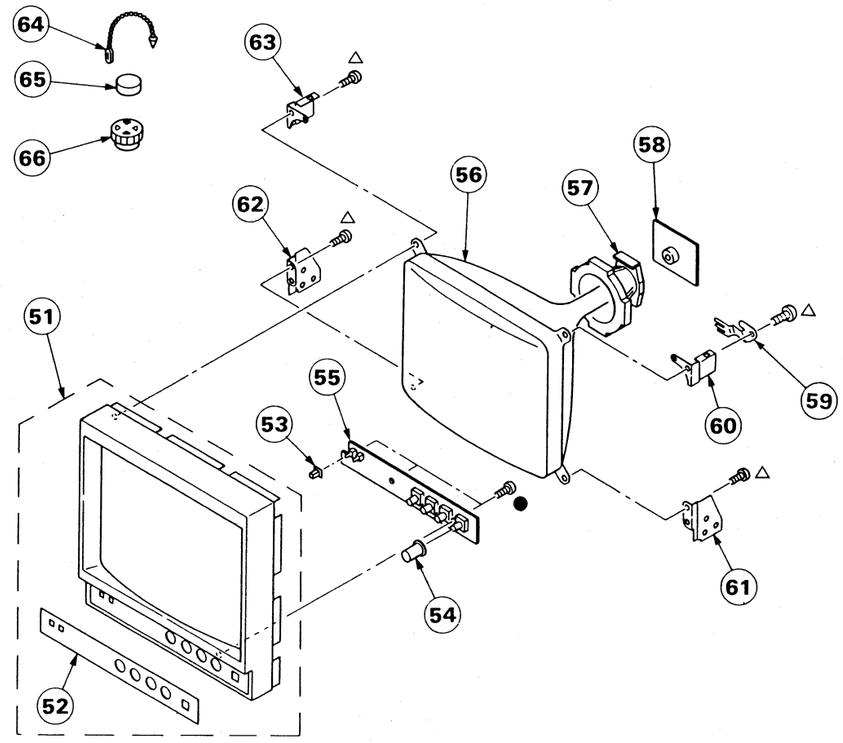
▲: BVTP3×8 7-685-646-79
□: P4×8 7-682-561-01
○: P3×6 7-682-547-04
▽: BVTP3×6 7-685-645-79



REF. NO.	PART NO.	DESCRIPTION	REMARK
1	*3-708-686-01	COVER, TOP	
2	*9-905-677-01	A BOARD, COMPLETE	
3	⚠9-905-666-01	TRANSFORMER ASSY, FLYBACK	
4	*9-905-698-01	F BOARD	
5	⚠1-571-433-11	SWITCH, PUSH (AC POWER)	
6	3-708-685-01	KNOB, POWER SW	
7	*3-708-689-01	CHASSIS, BOTTOM	
8	*3-708-688-01	COVER, BOTTOM	
9	3-708-672-01	FOOT	
10	4-041-091-01	CUSHION, FOOT	
11	1-544-063-11	SPEAKER	
12	*3-708-691-01	BRACKET, SUB (SMPS)	
13	*3-708-693-01	CASE (U, B), SHIELD	
14	*3-708-707-01	SHEET, PC	
15	3-708-708-01	RUBBER	
16	*9-905-683-01	G BOARD, COMPLETE	
17	*3-708-684-01	BRACKET, HEAT SINK	
18	3-708-673-01	HOLDER, IC	
19	*3-708-681-01	BRACKET, IC	
20	*3-708-692-01	HEAT SINK-AL	
21	*9-905-686-01	Q BOARD, COMPLETE	
22	⚠1-560-222-21	AC INLET	
23	*3-708-687-01	COVER, BACK	
24	3-703-353-03	SUPPORT, PC BOARD	
25	*9-905-704-01	G2 BOARD, COMPLETE	

6-2. PICTURE TUBE (PVM-95E only)

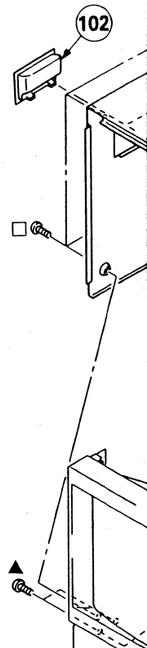
●: BVTP3×12 7-685-648-79
△: BVTP4×12 7-685-661-14



REF. NO.	PART NO.	DESCRIPTION	REMARK
51	X-3705-090-1	BEZEL ASSY	
52	3-708-695-01	PLATE, CONTROL	
53	3-708-711-01	KNOB, PUSH SW	
54	3-708-680-01	KNOB, CONTROL	
55	*9-905-695-01	H BOARD	
56	⚠9-905-700-01	PICTURE TUBE (C9D01SWH2)	
57	⚠9-905-699-01	DEFLECTION YOKE	
58	*9-905-690-01	C BOARD	
59	3-708-682-01	SPRING, CRT GROUND	
60	*3-708-678-01	BRACKET-R (TOP), CRT	
61	*3-708-679-01	BRACKET-R (BOTTOM), CRT	
62	*3-708-677-01	BRACKET-L (BOTTOM), CRT	
63	*3-708-676-01	BRACKET-L (TOP), CRT	
64	4-308-870-00	CLIP, LEAD WIRE	
65	1-452-032-00	MAGNET, DISK;10MMφ	
66	1-452-094-00	MAGNET, ROTATABLE DISK;15MMφ	

6-3. CH

▲: BVTP3
□: P4×8
○: P3×6
▽: BVTP3



REF. NO.	PART NO.
101	*3-708-
102	4-382-
103	*9-905-
104	⚠9-905-
105	*9-905-
106	⚠1-571-
107	3-708-
108	*3-708-
109	*3-708-
110	3-708-
111	*3-708-

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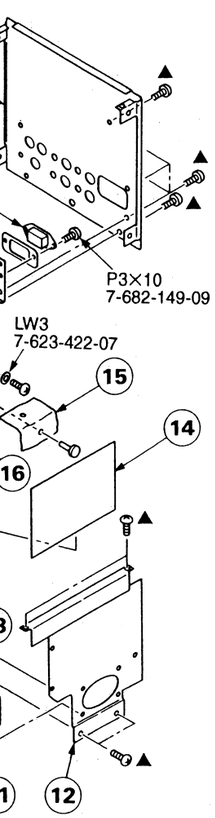
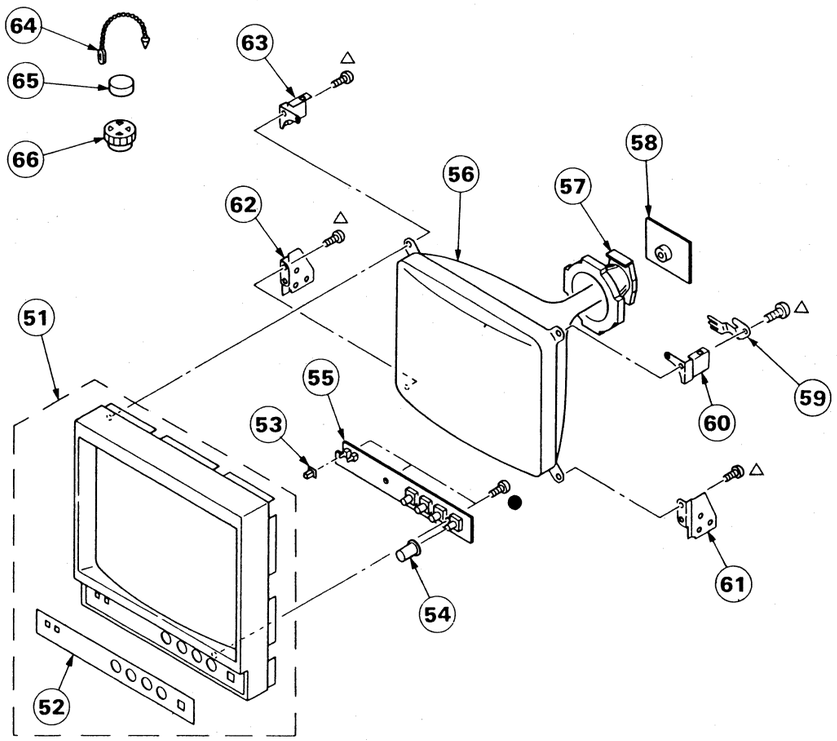
6-2. PICTURE TUBE (PVM-95E only)

●: BVTP3×12 7-685-648-79
△: BVTP4×12 7-685-661-14

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.





REMARK	REF. NO.	PART NO.	DESCRIPTION
	51	X-3705-090-1	BEZEL ASSY
	52	3-708-695-01	PLATE, CONTROL
	53	3-708-711-01	KNOB, PUSH SW
	54	3-708-680-01	KNOB, CONTROL
	55	*9-905-695-01	H BOARD
	56	⚠9-905-700-01	PICTURE TUBE (C9D01SWH2)
	57	⚠9-905-699-01	DEFLECTION YOKE
	58	*9-905-690-01	C BOARD
	59	3-708-682-01	SPRING, CRT GROUND
	60	*3-708-678-01	BRACKET-R (TOP), CRT
	61	*3-708-679-01	BRACKET-R (BOTTOM), CRT
	62	*3-708-677-01	BRACKET-L (BOTTOM), CRT
	63	*3-708-676-01	BRACKET-L (TOP), CRT
	64	4-308-870-00	CLIP, LEAD WIRE
	65	1-452-032-00	MAGNET, DISK;10MMφ
	66	1-452-094-00	MAGNET, ROTATABLE DISK;15MMφ

6-3. CHASSIS (PVM-135/145E only)

▲: BVTP3×8 7-685-646-79
□: P4×8 7-682-561-01
○: P3×6 7-682-547-04
▽: BVTP3×6 7-685-645-79

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

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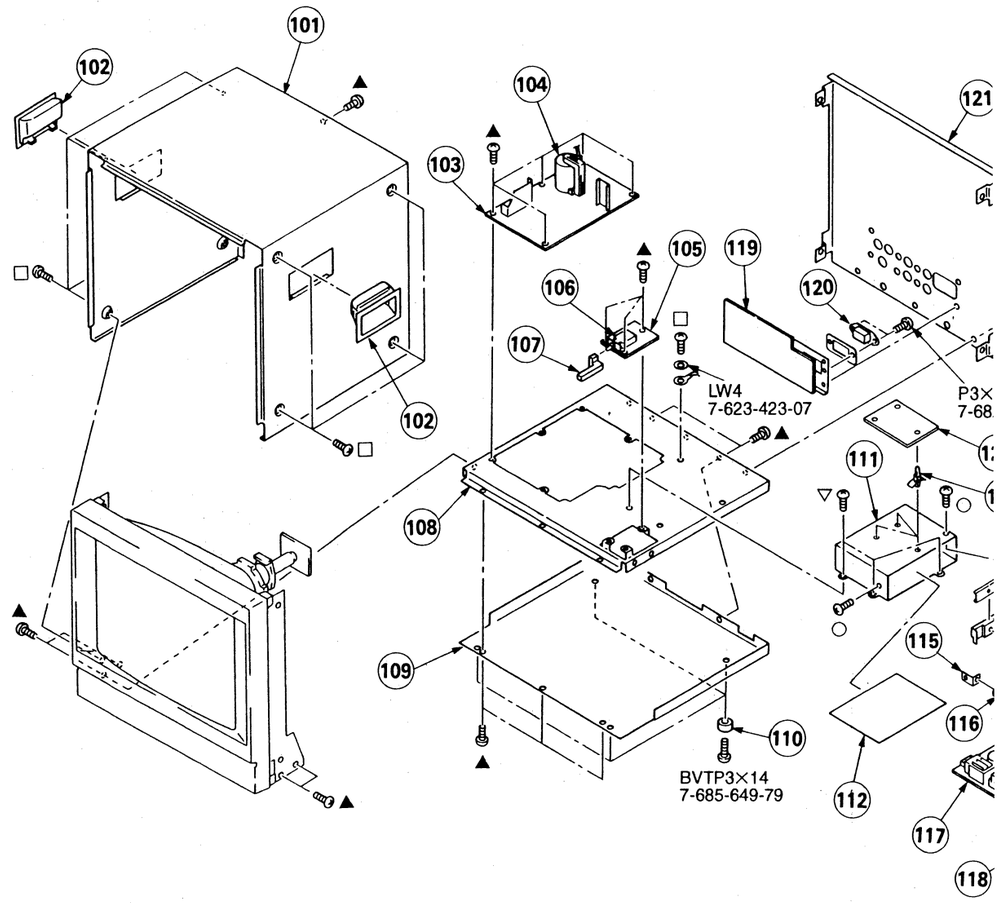


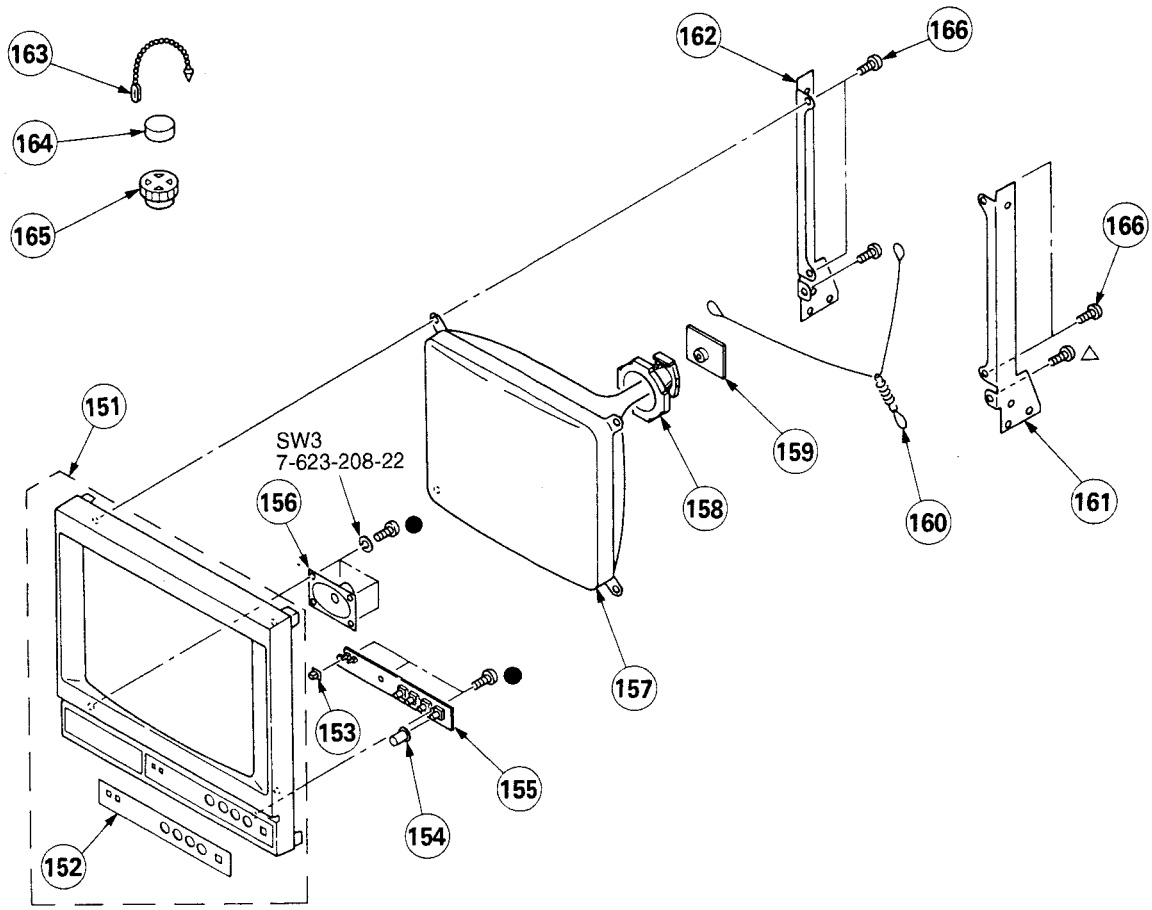
REMARK	REF. NO.	PART NO.	DESCRIPTION
	101	*3-708-705-01	COVER, TOP
	102	4-382-597-81	HANDLE
	103	*9-905-705-01	A BOARD, COMPLETE
	104	⚠9-905-666-01	TRANSFORMER ASSY, FLYBACK
	105	*9-905-698-01	F BOARD
	106	⚠1-571-433-11	SWITCH, PUSH (AC POWER)
	107	3-708-685-01	KNOB, POWER SW
	108	*3-708-702-01	CHASSIS, BOTTOM
	109	*3-708-703-01	COVER, BOTTOM
	110	3-708-697-01	FOOT
	111	*3-708-693-01	CASE (U, B), SHIELD
	112	*3-708-707-01	SHEET, PC
	113	*3-708-681-01	BRACKET, IC
	114	3-708-673-01	HOLDER, IC
	115	*3-708-684-01	BRACKET, HEAT SINK
	116	*3-708-692-01	HEAT SINK-AL
	117	*9-905-683-01	G BOARD, COMPLETE
	118	3-708-708-01	RUBBER
	119	*9-905-686-01	Q BOARD, COMPLETE
	120	⚠1-560-222-21	AC INLET
	121	*3-708-704-01	COVER, BACK
	122	3-703-353-03	SUPPORT, PC BOARD
	123	*9-905-708-01	G2 BOARD, COMPLETE

6-4. PICTURE TUBE (PVM-135/145E only)

●: BVTP3×12 7-685-648-79
△: BVTP4×12 7-685-661-14

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.



REF.NO.	PART NO.	DESCRIPTION	REMARK
151	X-3705-088-1	BEZEL ASSY	
152	3-708-695-01	PLATE, CONTROL	
153	3-708-711-01	KNOB, PUSH SW	
154	3-708-680-01	KNOB, CONTROL	
155	*9-905-695-01	H BOARD	
156	1-544-063-01	SPEAKER	
157	⚠9-905-704-01	PICTURE TUBE (C14D01SWH2)	
158	⚠9-905-699-01	DEFLECTION YOKE	

REF.NO.	PART NO.	DESCRIPTION	REMAR
159	*9-905-690-01	C BOARD	
160	4-303-774-03	SPRING, CRT GROUND	
161	*3-708-699-01	BRACKET-R, CRT	
162	*3-708-698-01	BRACKET-L, CRT	
163	4-308-870-00	CLIP, LEAD WIRE	
164	1-452-032-00	MAGNET, DISK;10MM ϕ	
165	1-452-094-00	MAGNET, ROTATABLE DISK;15MM ϕ	
166	4-365-808-01	SCREW TAPPING 5×25	

A

SECTION 7
ELECTRICAL PARTS LIST

NOTE:

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS
- All resistors are in ohms.
- F: nonflammable

When indicatng parts by reference number, please include the board name.

CAPACITORS
- MF: μF, PF: μμF

COILS
- MMH: mH, UH: μH

- The components identified by ⊠ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

REF. NO.	PART NO.	DESCRIPTION			REMARK
	*9-905-677-01	A BOARD, COMPLETE **********			(PVM-95E ONLY)
	*9-905-705-01	A BOARD, COMPLETE **********			(PVM-135/145E ONLY)
		<CAPACITOR>			
C201	1-124-120-11	ELECT	220MF	20%	16V
C202	1-101-004-00	CERAMIC	0.01MF		50V
C203	1-124-910-11	ELECT	47MF	20%	16V
C204	1-124-120-11	ELECT	220MF	20%	16V
C205	1-124-910-11	ELECT	47MF	20%	16V
C206	1-126-964-11	ELECT	10MF	20%	16V
C207	1-102-971-00	CERAMIC	82PF	5%	50V
C208	1-124-903-11	ELECT	1MF	20%	50V
C209	1-126-964-11	ELECT	10MF	20%	16V
C210	1-102-824-00	CERAMIC	470PF	5%	50V
C211	1-102-824-00	CERAMIC	470PF	5%	50V
C212	1-126-101-11	ELECT	100MF	20%	16V
C213	1-108-816-11	FILM	0.1MF	5%	50V
C214	1-123-949-00	ELECT	33MF	20%	200V
C215	1-102-971-00	CERAMIC	82PF	5%	50V
C216	1-102-116-00	CERAMIC	680PF	10%	50V
C217	1-124-808-51	ELECT	10MF	20%	200V
C218	1-108-812-11	FILM	0.047MF	5%	50V
C219	1-124-041-00	ELECT	220MF	20%	16V
C220	1-102-119-00	CERAMIC	0.0015MF	10%	50V
C222	1-161-772-11	CERAMIC	0.1MF	20%	25V
C301	1-126-183-11	ELECT	1000MF	20%	16V
C302	1-130-489-11	FILM	0.033MF	5%	50V
C303	1-124-903-11	ELECT	1MF	20%	50V
C304	1-124-902-00	ELECT	0.47MF	20%	50V
C305	1-124-903-11	ELECT	1MF	20%	50V
C306	1-130-489-11	FILM	0.033MF	5%	50V
C307	1-124-903-11	ELECT	1MF	20%	50V
C308	1-108-812-11	FILM	0.047MF	5%	50V
C309	1-124-903-11	ELECT	1MF	20%	50V
C310	1-131-345-00	TANTAL.	0.47MF	20%	35V
C311	1-101-004-00	CERAMIC	0.01MF		50V
C312	1-164-235-51	CERAMIC	12PF	5%	500V
C313	1-124-572-11	ELECT	100MF	20V	50V
C314	1-102-980-00	CERAMIC	270PF	5%	50V
C315	1-102-116-00	CERAMIC	680PF	5%	50V
C316	1-102-820-00	CERAMIC	330PF	5%	50V
C317	1-108-802-11	FILM	0.0068MF	5%	50V
C318	1-131-352-00	ELECT	6.8MF	20%	35V
C319	1-124-480-11	ELECT	470MF	20%	25V
C320	1-126-104-11	ELECT	470MF	20%	35V
C321	1-130-489-11	FILM	0.033MF	5%	50V
C322	1-124-478-11	ELECT	100MF	20%	25V
C323	1-126-103-11	ELECT	470MF	20%	16V
C401	1-130-485-00	FILM	0.015MF	5%	50V
C402	1-108-808-11	FILM	0.022MF	5%	50V
C403	1-126-964-11	ELECT	10MF	20%	16V
C404	1-106-351-00	FILM	0.0022MF	5%	100V
C405	1-123-382-00	ELECT	3.3MF	20%	50V
C406	1-101-884-00	CERAMIC	56PF	5%	50V
C407	1-124-915-11	ELECT	10MF	20%	50V
C408	1-130-483-00	FILM	0.01MF	5%	100V
C409	1-129-702-11	FILM	0.001MF	10%	400V
C410	1-136-598-11	FILM	3.0MF	5%	200V
C411	1-129-720-00	FILM	0.033MF	5%	630V
C412	1-130-710-00	FILM	0.1MF	20%	250V
C413	1-124-915-11	ELECT	10MF	20%	50V
C414	1-136-557-11	FILM	0.0033MF	10%	630V (PVM-95E ONLY)
C414	1-136-559-11	FILM	0.0047MF	10%	630V (PVM-135/145E ONLY)
C415	1-129-716-00	FILM	0.015MF		630V
C416	1-126-105-11	ELECT	1000MF	20%	35V
C417	1-126-105-11	ELECT	1000MF	20%	35V
C418	1-108-792-11	FILM	0.001MF	5%	50V
C419	1-102-973-00	CERAMIC	100PF	5%	50V
C420	1-108-812-11	FILM	0.047MF	5%	50V
C421	1-102-820-00	CERAMIC	330PF	5%	50V
C422	1-126-964-11	ELECT	10MF	20%	16V
C423	1-124-925-11	ELECT	2.2MF	20%	50V
C424	1-124-925-11	ELECT	2.2MF	20%	50V
C425	1-130-483-00	FILM	0.01MF	5%	50V
C427	1-136-559-11	FILM	0.0047MF	10%	630V
C428	1-108-812-11	FILM	0.047MF	5%	50V
C429	1-126-101-11	ELECT	100MF	20%	16V
C430	1-124-120-11	ELECT	220MF	20%	25V
C431	1-136-244-11	FILM	0.1MF	5%	50V
C432	1-108-686-11	FILM	0.0033MF	10%	200V
		<CONNECTOR>			
CN201	*9-905-674-01	CONNECTOR 8P			
CN202	*9-905-672-01	CONNECTOR 5P			
CN203	*9-905-672-01	CONNECTOR 5P			
CN204	*9-905-670-01	CONNECTOR 2P			
CN401	*9-905-671-01	CONNECTOR 3P			
CN402	*9-905-676-01	CONNECTOR 2P L			
CN403	*9-905-671-01	CONNECTOR 3P			
CN404	*9-905-676-01	CONNECTOR 2P L			

REF.NO.	PART NO.	DESCRIPTION	REMARK
		<DIODE>	
D201	8-719-911-19	DIODE 1SS119	
D202	8-719-921-63	DIODE MTZJ-7.5B	
D203	8-719-200-02	DIODE 10E2	
D204	8-719-200-02	DIODE 10E2	
D301	8-719-911-19	DIODE 1SS119	
D302	8-719-911-19	DIODE 1SS119	
D303	8-719-911-19	DIODE 1SS119	
D305	8-719-911-19	DIODE 1SS119	
D306	8-719-911-19	DIODE 1SS119	
D307	8-719-200-02	DIODE 10E2	
D401	8-719-911-19	DIODE 1SS119	
D402	8-719-911-19	DIODE 1SS119	
D403	8-719-911-19	DIODE 1SS119	
D404	8-719-200-02	DIODE 10E2	
D405	8-719-109-89	DIODE RD5.6ES-B2	
D406	8-719-901-16	DIODE V11J	
D407	8-719-985-76	DIODE FR104	
D408	8-719-985-76	DIODE FR104	
D409	8-719-985-76	DIODE FR104	
D410	8-905-661-01	DIODE FR304	
D411	8-719-911-19	DIODE 1SS119	
D412	8-905-660-01	DIODE FR105	
		<IC>	
IC301	8-759-801-98	IC LA7830	
IC401	8-759-100-60	IC UPC1377C	
IC402	8-759-909-70	IC CX23025	
IC403	8-759-231-58	IC TA7812S	
		<COIL>	
L201	1-408-411-11	INDUCTOR 15UH	
L202	1-408-417-00	INDUCTOR 47UH	
L301	1-408-411-00	INDUCTOR 15UH	
L401	1-410-093-11	INDUCTOR 33MMH	
L402	1-410-668-11	INDUCTOR 27UH	
L403	9-905-664-01	INDUCTOR HLC	
L404	9-905-663-01	INDUCTOR H-WIDTH COIL	
		<TRANSISTOR>	
Q201	8-729-281-53	TRANSISTOR 2SC1815-GR	
Q202	8-729-173-38	TRANSISTOR 2SA733-K	
Q203	8-729-281-53	TRANSISTOR 2SC1815-GR	
Q204	8-729-173-38	TRANSISTOR 2SA733-K	
Q205	8-729-281-53	TRANSISTOR 2SC1815-GR	
Q206	8-729-281-53	TRANSISTOR 2SC1815-GR	
Q207	8-729-281-53	TRANSISTOR 2SC1815-GR	
Q208	8-729-321-61	TRANSISTOR 2SC1514	
Q209	8-729-281-53	TRANSISTOR 2SC1815-GR	
Q210	8-729-281-53	TRANSISTOR 2SC1815-GR	
Q211	8-729-900-65	TRANSISTOR DTA144ES	
Q212	8-729-281-53	TRANSISTOR 2SC1815	
Q301	8-729-900-65	TRANSISTOR DTA144ES	
Q302	8-729-900-36	TRANSISTOR DTC124ES	
Q401	8-729-900-36	TRANSISTOR DTC124ES	
Q402	9-995-367-01	TRANSISTOR BU406	
Q403	8-729-111-55	TRANSISTOR 2SD1312-K	
Q404	8-729-900-36	TRANSISTOR DTC124ES	
Q405	8-729-900-36	TRANSISTOR DTC124ES	
		<RESISTOR>	
R201	1-249-431-11	CARBON 15K 5% 1/4W	
R202	1-249-415-11	CARBON 680 5% 1/4W	
R203	1-249-410-11	CARBON 270 5% 1/4W	
R204	1-249-426-11	CARBON 5.6K 5% 1/4W	
R205	1-249-429-11	CARBON 10K 5% 1/4W	
R206	1-249-427-11	CARBON 6.8K 5% 1/4W	
R207	1-249-409-11	CARBON 220 5% 1/4W	
R208	1-249-410-11	CARBON 270 5% 1/4W	
R209	1-249-413-11	CARBON 470 5% 1/4W	
R210	1-249-422-11	CARBON 2.7K 5% 1/4W	
R211	1-249-417-11	CARBON 1K 5% 1/4W	
R212	1-249-405-11	CARBON 100 5% 1/4W	
R213	1-249-409-11	CARBON 220 5% 1/4W	
R214	1-249-437-11	CARBON 47K 5% 1/6W	
R215	1-247-897-11	CARBON 560K 5% 1/4W	
R216	1-249-425-11	CARBON 4.7K 5% 1/4W	
R217	1-247-903-00	CARBON 1M 5% 1/4W	
R218	1-249-418-11	CARBON 1.2K 5% 1/4W	
R219	1-249-429-11	CARBON 10K 5% 1/4W	
R220	1-249-429-11	CARBON 10K 5% 1/4W	
R221	1-249-421-11	CARBON 2.2K 5% 1/4W	
R222	1-249-425-11	CARBON 4.7K 5% 1/4W	
R223	1-249-408-11	CARBON 180 5% 1/4W	
R224	1-249-419-00	CARBON 1.5K 5% 1/4W	
R225	1-249-414-11	CARBON 560 5% 1/4W	
R226	1-249-417-11	CARBON 1K 5% 1/4W	
R227	1-216-482-11	METAL OXIDE 1.8K 5% 3W	
R228	1-249-417-11	CARBON 1K 5% 1/4W	
R229	1-249-405-11	CARBON 100 5% 1/4W	
R230	1-249-401-11	CARBON 47 5% 1/4W	
R231	1-247-807-31	CARBON 100 5% 1/4W	
R232	1-249-413-11	CARBON 470 5% 1/4W	
R233	1-249-409-11	CARBON 220 5% 1/4W	
R234	1-247-891-00	CARBON 330K 5% 1/4W	
R235	1-249-413-11	CARBON 470 5% 1/4W	
R236	1-247-807-11	CARBON 100 5% 1/4W	
R237	1-249-417-11	CARBON 1K 5% 1/4W	
R238	1-247-807-11	CARBON 100 5% 1/4W	
R301	1-247-733-11	CARBON 33 5% 1/2W	
R302	1-249-435-11	CARBON 33K 5% 1/4W	
R303	1-249-435-11	CARBON 33K 5% 1/4W	
R304	1-249-433-11	CARBON 22K 5% 1/4W	
R305	1-249-422-11	CARBON 2.7K 5% 1/4W	
R306	1-249-428-11	CARBON 8.2K 5% 1/4W	
R307	1-247-886-11	CARBON 200K 5% 1/4W	
R308	1-247-881-00	CARBON 120K 5% 1/4W	
R309	1-249-414-11	CARBON 560 5% 1/4W	
R311	1-249-428-11	CARBON 8.2K 5% 1/6W	
R312	1-249-433-11	CARBON 22K 5% 1/4W	
R313	1-249-422-11	CARBON 2.7K 5% 1/4W	
R315	1-247-841-11	CARBON 2.7K 5% 1/4W	
R316	1-247-881-00	CARBON 120K 5% 1/4W	
R317	1-247-807-11	CARBON 100 5% 1/4W	
R318	1-249-419-11	CARBON 1.5K 5% 1/2W	
R319	1-247-711-11	CARBON 680 5% 1/4W	
R320	1-249-430-11	CARBON 12K 5% 1/4W	
R321	1-247-843-31	CARBON 3.3K 5% 1/4W	

A C F G

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

REF. NO.	PART NO.	DESCRIPTION				REMARK
R322	1-249-466-11	CARBON	56K	5%	1/4W	
R323	1-216-357-00	METAL OXIDE	4.7	5%	1W	
R324	1-249-409-11	CARBON	220	5%	1/4W	
R325	1-249-419-11	CARBON	1.5K	5%	1/4W	
R326	1-249-408-11	CARBON	180	5%	1/4W	
R327	1-249-423-11	CARBON	3.3K	5%	1/4W	
R328	1-249-423-11	CARBON	3.3K	5%	1/4W	
R329	1-247-855-11	CARBON	10K	5%	1/4W	
R401	1-249-437-11	CARBON	47K	5%	1/4W	
R402	1-247-889-11	CARBON	270K	5%	1/4W	
R403	1-249-435-11	CARBON	33K	5%	1/4W	
R404	1-247-757-11	CARBON	2.7K	5%	1/2W	
R405	1-249-430-11	CARBON	12K	5%	1/4W	
⊠R406 ⚠		CARBON		5%	1/4W	
R407	1-249-435-11	CARBON	33K	5%	1/4W	
⊠R408 ⚠		CARBON		5%	1/4W	
R409	1-249-427-11	CARBON	6.8K	5%	1/4W	
R410	1-247-688-11	CARBON	10	5%	1/4W	
R411	1-216-349-00	METAL OXIDE	1	5%	1W	
R412	1-247-688-11	CARBON	10	5%	1/4W	
R413	1-216-349-00	METAL OXIDE	1	5%	1W	
R414	1-249-388-11	CARBON	3.9	5%	1/4W	
R415	1-247-740-11	CARBON	120	5%	1/2W	
R416	1-249-417-11	CARBON	1K	5%	1/4W	
R417	1-247-743-11	CARBON	1.5K	5%	1/2W	
R418	1-249-440-11	CARBON	82K	5%	1/4W	
R419	1-249-426-11	CARBON	5.6K	5%	1/4W	
R420	1-249-440-11	CARBON	82K	5%	1/4W	
R421	1-247-889-00	CARBON	270K	5%	1/4W	
R422	1-249-405-11	CARBON	100	5%	1/4W	
R423	1-249-437-11	CARBON	47K	5%	1/4W	
R424	1-249-437-11	CARBON	47K	5%	1/4W	
R425	1-247-713-11	CARBON	1K	5%	1/4W	
R426	1-249-426-11	CARBON	5.6K	5%	1/4W	
		<VARIABLE RESISTOR>				
RV301	1-228-989-00	RES, ADJ, CARBON 470				
RV302	1-228-993-00	RES, ADJ, CARBON 4.7K				
RV402	1-228-993-00	RES, ADJ, CARBON 4.7K				
		<TRANSFORMER>				
T401	9-905-665-01	TRANSFORMER HDT				
T402	⚠9-905-666-01	TRANSFORMER ASSY, FLYBACK				
**********						
	*9-905-690-01	C BOARD *******				
		<CAPACITOR>				
C701	1-106-399-00	FILM	0.22MF	10%	200V	
C702	1-130-710-00	FILM	0.1MF	20%	250V	
C703	1-129-720-00	FILM	0.033MF	10%	630V	
C704	1-129-720-00	FILM	0.033MF	10%	630V	
		<RESISTOR>				
R701	1-249-496-11	CARBON	100K	5%	1/2W	
R702	1-247-752-11	CARBON	1K	5%	1/2W	
R703	1-247-760-11	CARBON	4.7K	5%	1/2W	
R704	1-247-760-11	CARBON	4.7K	5%	1/2W	
R705	1-247-893-11	CARBON	390K	5%	1/4W	
R706	1-247-760-11	CARBON	4.7K	5%	1/2W	
R707	1-247-903-00	CARBON	1M	5%	1/4W	
R708	1-249-465-11	CARBON	47K	1%	1/4W (PVM-135/145E ONLY)	
R708	1-246-541-00	CARBON	680K	1%	1/4W (PVM-95E ONLY)	
R710	1-249-424-11	CARBON	3.9K	5%	1/4W	
		<VARIABLE RESISTOR>				
RV701	9-905-689-01	RES, ADJ 2M				
RV702	9-905-688-01	RES, ADJ 1M				
		<SPARK GAP>				
SG701	1-519-422-11	GAP, SPARK 1K				
**********						
	*9-905-698-01	F BOARD *******				
		<CONNECTOR>				
CN901	9-905-697-01	CONNECTOR 3P				
CN902	9-905-697-01	CONNECTOR 3P				
		<FUSE>				
F901	⚠1-532-745-11	FUSE, GLASS TUBE 3.15A/125V (PVM-135 ONLY)				
F901	⚠1-576-230-41	FUSE (H.B.C) T3.15A/250V(PVM-95E/145E ONLY)				
		<SWITCH>				
SW901	1-571-433-12	SWITCH, PUSH (AC POWER)				
**********						
	*9-905-683-01	G BOARD, COMPLETE **********				
		<CAPACITOR>				
C501	1-130-487-00	FILM	0.022MF	5%	100V	
C502	1-124-464-11	ELECT	0.22MF	20%	50V	
C503	1-102-981-00	CERAMIC	300PF	5%	50V	
C504	1-106-375-12	FILM	0.022MF	10%	100V	
C505	1-106-375-12	FILM	0.022MF	10%	100V	
C506	1-106-375-12	FILM	0.022MF	10%	100V	
C601	1-136-185-00	FILM	0.22MF	20%	250V	
C602	1-136-185-00	FILM	0.22MF	20%	250V	
C603	1-161-973-00	CERAMIC	220PF	10%	400V	
C604	1-161-973-00	CERAMIC	220PF	10%	400V	
C605	1-161-973-00	CERAMIC	220PF	10%	400V	
C608	1-162-599-12	CERAMIC	4700PF	20%	400V	
C609	1-162-599-12	CERAMIC	4700PF	20%	400V	
C610	1-125-724-11	ELECT	180MF	20%	400V	
C611	1-136-206-11	FILM	0.033MF	10%	630V	
C612	1-126-803-11	ELECT	47MF	20%	50V	
C613	1-108-642-11	FILM	0.22MF	10%	100V	
C614	1-108-642-11	FILM	0.22MF	10%	100V	
C651	1-161-925-00	CERAMIC	100PF	10%	500V	
C652	1-126-170-11	ELECT	1000MF	20%	50V	
C653	1-128-347-11	ELECT	330MF	20%	50V	
C654	1-130-483-00	FILM	0.01MF	5%	100V	

- The components identified by ⊠ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION				REMARK
		<CONNECTOR>				
CN610	*1-560-436-00	CONNECTOR 3P				
CN611	*1-564-518-11	CONNECTOR 3P				
		<DIODE>				
D601	8-719-510-22	DIODE D3SB60				
D602	8-719-911-19	DIODE 1SS119				
D603	8-719-970-87	DIODE ERA38-06				
D604	8-719-970-87	DIODE ERA38-06				
D605	8-719-110-53	DIODE RD20ESB2				
D651	8-719-971-08	DIODE ESAC39M-06C				
		<IC>				
IC601	8-759-637-30	IC M51978				
IC651	8-759-908-15	IC TL431CLP				
		<COIL>				
L601	9-905-681-01	LFT 38MMH				
L602	9-905-679-01	COIL, CHOKE LFT 13MMH				
L651	1-424-255-11	COIL, CHOKE 10UH				
L652	9-905-681-01	LFT 100UH				
		<PHOTO SENSOR>				
PH601	⚠ 8-729-159-90	PS2652-P				
		<TRANSISTOR>				
Q601	8-729-322-18	TRANSISTOR 2SK1402A				
		<RESISTOR>				
R501	1-249-441-11	CARBON	100K	5%	1/4W	
R502	1-249-417-11	CARBON	1K	5%	1/4W	
R503	1-249-433-11	CARBON	22K	5%	1/4W	
R504	1-247-887-00	CARBON	220K	5%	1/4W	
R505	1-249-433-11	CARBON	22K	5%	1/4W	
R506	1-249-432-11	CARBON	18K	5%	1/4W	
R507	1-249-397-11	CARBON	22	5%	1/6W	
R601	1-216-411-11	CEMENT	1.5	5%	5W	F
R602	1-216-411-11	CEMENT	1.5	5%	5W	F
R603	1-215-904-11	METAL OXIDE	100K	5%	2W	
R604	1-215-904-11	METAL OXIDE	100K	5%	2W	
R605	1-212-865-00	FUSIBLE	22	5%	1/4W	
R606	1-249-404-00	CARBON	82	5%	1/4W	
R607	1-260-128-91	CARBON	270K	5%	1/4W	
R608	1-260-128-91	CARBON	270K	5%	1/4W	
R609	1-215-904-11	METAL OXIDE	100K	5%	2W	
R610	1-216-341-11	WIREWOUND	0.22	5%	3W	
R611	1-249-396-11	CARBON	18	5%	1/4W	
R612	1-249-399-11	CARBON	33	5%	1/4W	
R613	1-215-904-11	METAL OXIDE	100K	5%	2W	
R614	1-249-409-11	CARBON	220	5%	1/4W	
R651	1-215-886-11	METAL OXIDE	100	5%	2W	
R652	1-215-886-11	METAL OXIDE	100	5%	2W	
R653	1-260-107-11	CARBON	4.7K	5%	1/4W	
R654	1-260-107-11	CARBON	4.7K	5%	1/4W	
R655	1-249-435-11	CARBON	33K	5%	1/4W	
R656	1-249-433-11	CARBON	22K	5%	1/4W	
R657	1-249-422-11	CARBON	2.7K	5%	1/4W	
R658	1-249-423-11	CARBON	3.3K	5%	1/4W	
R666	1-218-265-11	METAL GLAZE	8.2M	5%	1W	
		<VRIABLE RESISTOR>				
RV651	⚠ 1-228-744-11	RES, ADJ, CARBON 470				
		<TRANSFORMER >				
T601	9-905-682-01	TRANSFORMER, CONVERTER				
		**********				
	*9-905-708-01	G2 BOARD, COMPLETE				
		**********				
		<CAPACITOR>				
C670	1-102-973-00	CERAMIC	100PF	10%	100V	
C671	1-124-910-11	ELECT	47MF	20%	50V	
C672	1-123-382-00	ELECT	3.3MF	20%	50V	
C673	1-124-927-11	ELECT	4.7MF	20%	50V	
		<CONNECTOR>				
CN601	*1-564-521-11	CONNECTOR 6P				
		<DIODE>				
D670	8-719-100-41	DIODE RD15ESB2				
D671	8-719-911-19	DIODE 1SS119				
D672	8-719-911-19	DIODE 1SS119				
		<TRANSISTOR>				
Q670	8-729-304-06	TRANSISTOR 2SA1488-O				
Q671	8-729-173-38	TRANSISTOR 2SA733-K				
Q672	8-729-281-53	TRANSISTOR 2SC1815-GR				
Q673	8-729-281-53	TRANSISTOR 2SC1815-GR				
Q674	8-729-281-53	TRANSISTOR 2SC1815-GR				
Q675	8-729-281-53	TRANSISTOR 2SC1815-GR				
		<RESISTOR>				
R670	1-247-700-11	CARBON	100	5%	1/4W	F
R671	1-249-399-11	CARBON	33	5%	1/4W	
R672	1-247-855-11	CARBON	10K	5%	1/4W	
R673	1-249-417-11	CARBON	1K	5%	1/4W	
R674	1-249-417-11	CARBON	1K	5%	1/4W	
R675	1-249-425-11	CARBON	4.7K	5%	1/4W	
R676	1-249-425-11	CARBON	4.7K	5%	1/4W	
R677	1-247-897-11	CARBON	560K	5%	1/4W	
R678	1-249-459-11	CARBON	12K	5%	1/4W	
R679	1-249-425-11	CARBON	4.7K	5%	1/4W	
R680	1-249-423-11	CARBON	3.3K	5%	1/4W	
R681	1-249-414-11	CARBON	560	5%	1/4W	
R682	1-247-891-00	CARBON	330K	5%	1/4W	
R683	1-249-433-11	CARBON	22K	5%	1/4W	
R684	1-249-432-11	CARBON	18K	5%	1/4W	
R685	1-247-855-11	CARBON	10K	5%	1/4W	
R686	1-249-441-11	CARBON	100K	5%	1/4W	
R687	1-249-427-11	CARBON	6.8K	5%	1/4W	
R688	1-249-420-11	CARBON	1.8K	5%	1/4W	

- The components identified by ⧓ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

G2 H Q

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

REF. NO.	PART NO.	DESCRIPTION			REMARK
		<VARIABLE RESISTOR>			
RV670	1-249-425-11	RES, ADJ, CARBON 4.7K			
**********					
	*9-905-695-01	H BOARD			
		*******			
		<DIODE>			
D801	9-996-328-01	DIODE KLG124E			
		<RESISTOR>			
R801	1-249-419-11	CARBON	1.5K	5% 1/4W	
R806	1-247-863-11	CARBON	22K	5% 1/4W	
		<VARIABLE RESISTOR>			
RV801	9-905-693-01	20K			
RV802	9-905-691-01	500B			
RV803	9-905-694-01	100K			
RV804	9-905-693-01	20K			
		<SWITCH>			
SW802	1-554-419-00	SWITCH, PUSH (1 KEY)			
SW803	1-554-419-00	SWITCH, PUSH (1 KEY)			
**********					
	*9-905-686-01	Q BOARD, COMPLETE			
		**********			
	*9-905-687-01	TERMINAL ASSY, INPUT OUTPUT			
	⚠1-560-222-21	INLET, AC			
		<CAPACITOR>			
C101	1-126-964-11	ELECT	10MF	20% 16V	
C102	1-126-233-11	ELECT	22MF	20% 16V	
C103	1-101-004-00	CERAMIC	0.01MF	50V	
C104	1-126-233-11	ELECT	22MF	20% 16V	
C105	1-126-233-11	ELECT	22MF	20% 16V	
C106	1-126-233-11	ELECT	22MF	20% 16V	
C107	1-101-004-00	CERAMIC	0.01MF	50V	
C108	1-126-233-11	ELECT	22MF	20% 16V	
C109	1-126-233-11	ELECT	22MF	20% 16V	
C110	1-126-964-11	ELECT	10MF	20% 16V	
C111	1-126-964-11	ELECT	10MF	20% 16V	
C112	1-101-004-00	CERAMIC	0.01MF	50V	
C113	1-126-233-11	ELECT	22MF	20% 16V	
C114	1-126-233-11	ELECT	22MF	20% 16V	
C115	1-126-233-11	ELECT	22MF	20% 16V	
C116	1-124-910-11	ELECT	47MF	20% 16V	
C117	1-101-004-00	CERAMIC	0.01MF	50V	
C118	1-126-233-11	ELECT	22MF	20% 16V	
C119	1-126-964-11	ELECT	10MF	20% 16V	
C120	1-124-251-11	ELECT	0.22	20% 50V	
C121	1-101-004-00	CERAMIC	0.01MF	50V	
C122	1-124-233-11	ELECT	22MF	20% 16V	
C123	1-126-964-11	ELECT	10MF	20% 16V	
C124	1-124-464-11	ELECT	0.22MF	20% 50V	
C125	1-102-125-00	CERAMIC	0.0047MF	20% 50V	
C126	1-124-464-11	ELECT	0.22MF	20% 50V	
C127	1-126-157-11	ELECT	10MF	20% 16V	
C128	1-126-157-11	ELECT	10MF	20% 16V	
C129	1-108-812-11	FILM	0.047MF	5% 50V	
C130	1-124-120-11	ELECT	220MF	20% 16V	
C131	1-124-120-11	ELECT	220MF	20% 16V	
C132	1-124-120-11	ELECT	220MF	20% 16V	
C133	1-124-910-11	ELECT	47MF	20% 16V	
C134	1-126-969-11	ELECT	220MF	20% 25V	
C135	1-124-464-11	ELECT	0.22MF	20% 50V	
C136	1-126-157-11	ELECT	10MF	20% 16V	
C137	1-101-004-00	CERAMIC	0.01MF	50V	
C139	1-126-157-11	ELECT	10MF	20% 16V	
C144	1-126-964-11	ELECT	10MF	20% 16V	
		<CONNECTOR>			
CN101	*9-905-675-01	CONNECTOR 8P			
CN103	*9-905-671-01	CONNECTOR 3P			
CN104	*9-905-670-01	CONNECTOR 2P			
CN105	*9-905-697-01	CONNECTOR 3PL			
CN106	*9-905-671-01	CONNECTOR 3P			
		<DIODE>			
D103	8-719-911-19	DIODE 1SS119			
D106	8-719-911-19	DIODE 1SS119			
D107	8-719-911-19	DIODE 1SS119			
D111	8-719-911-19	DIODE 1SS119			
D116	8-719-911-19	DIODE 1SS119			
D119	8-719-911-19	DIODE 1SS119			
D122	8-719-911-19	DIODE 1SS119			
D125	8-719-911-19	DIODE 1SS119			
D126	8-719-911-19	DIODE 1SS119			
D127	8-719-109-89	DIODE RD5.6ES-B2			
		<IC>			
IC101	8-759-800-81	IC LA7016			
IC102	8-759-800-81	IC LA7016			
IC103	8-759-800-81	IC LA7016			
IC104	8-759-420-04	IC AN5265			
		<TRANSISTOR>			
Q101	8-729-281-53	TRANSISTOR 2SC1815-GR			
Q102	8-729-281-53	TRANSISTOR 2SC1815-GR			
Q103	8-729-281-53	TRANSISTOR 2SC1815-GR			
Q106	8-729-173-38	TRANSISTOR 2SA733-K			
Q107	8-729-173-38	TRANSISTOR 2SA733-K			
Q108	8-729-195-82	TRANSISTOR 2SC2958			
Q109	8-729-281-53	TRANSISTOR 2SC1815-GR			
		<RESISTOR>			
R101	1-247-804-11	CARBON	75	5% 1/4W	
R102	1-249-417-11	CARBON	1K	5% 1/4W	
R103	1-249-439-11	CARBON	68K	5% 1/4W	
R104	1-249-438-11	CARBON	56K	5% 1/4W	
R105	1-249-421-11	CARBON	2.2K	5% 1/4W	
R106	1-249-411-11	CARBON	330	5% 1/4W	
R107	1-249-405-11	CARBON	100	5% 1/4W	
R108	1-249-433-11	CARBON	22K	5% 1/4W	
R109	1-249-433-11	CARBON	22K	5% 1/4W	
R110	1-249-405-11	CARBON	100	5% 1/4W	

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Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION				REMARK
R111	1-249-411-11	CARBON	330	5%	1/4W	
R112	1-249-421-11	CARBON	2.2K	5%	1/4W	
R113	1-249-438-11	CARBON	56K	5%	1/4W	
R114	1-249-439-11	CARBON	68K	5%	1/4W	
R115	1-249-417-11	CARBON	1K	5%	1/4W	
R116	1-247-804-11	CARBON	75	5%	1/4W	
R117	1-249-417-11	CARBON	1K	5%	1/4W	
R118	1-249-439-11	CARBON	68K	5%	1/4W	
R119	1-249-433-11	CARBON	22K	5%	1/4W	
R120	1-249-433-11	CARBON	22K	5%	1/4W	
R121	1-249-430-11	CARBON	12K	5%	1/4W	
R123	1-249-411-11	CARBON	330	5%	1/4W	
R124	1-249-438-11	CARBON	56K	5%	1/4W	
R125	1-247-804-11	CARBON	75	5%	1/4W	
R126	1-249-421-11	CARBON	2.2K	5%	1/4W	
R127	1-246-157-11	CARBON	12K	5%	1/4W	
R132	1-249-417-11	CARBON	1K	5%	1/4W	
R133	1-249-417-11	CARBON	1K	5%	1/4W	
R135	1-247-897-11	CARBON	560K	5%	1/4W	
R136	1-249-431-11	CARBON	15K	5%	1/4W	
R137	1-249-441-11	CARBON	100K	5%	1/4W	
R138	1-247-887-00	CARBON	220K	5%	1/4W	
R139	1-249-405-11	CARBON	100	5%	1/4W	
R140	1-247-897-11	CARBON	560K	5%	1/4W	
R141	1-249-431-11	CARBON	15K	5%	1/4W	
R142	1-249-441-11	CARBON	100K	5%	1/4W	
R143	1-214-921-00	CARBON	220K	5%	1/2W	
R144	1-249-405-11	CARBON	100	5%	1/4W	
R145	1-249-421-11	CARBON	2.2K	5%	1/4W	
R146	1-249-429-11	CARBON	10K	5%	1/4W	
R147	1-249-435-11	CARBON	33K	5%	1/4W	
R148	1-249-405-11	CARBON	680	5%	1/4W	
R149	1-247-775-11	CARBON	4.7	5%	1/4W	
R150	1-249-433-11	CARBON	22K	5%	1/4W	
R151	1-249-433-11	CARBON	22K	5%	1/4W	
R152	1-249-424-11	CARBON	3.9K	5%	1/4W	
R153	1-249-393-11	CARBON	10	5%	1/4W	
R154	1-247-775-11	CARBON	4.7	5%	1/4W	
R155	1-247-831-11	CARBON	1K	5%	1/4W	
R156	1-249-409-11	CARBON	220	5%	1/4W	
R157	1-249-439-11	CARBON	68K	5%	1/4W	
R158	1-249-439-11	CARBON	68K	5%	1/4W	
R159	1-249-441-11	CARBON	100K	5%	1/4W	
R160	1-247-849-11	CARBON	5.6K	5%	1/4W	

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MISCELLANEOUS
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	1-544-063-11	SPEAKER	
	⚠1-560-222-21	INLET, AC	
F501	⚠1-532-203-11	FUSE, TIME-LAG 2A/250V	(PVM-95E/145E ONLY)
F501	⚠1-532-743-11	FUSE, GLASS TUBE 2A/125V	(PVM-135 ONLY)
F901	⚠1-532-745-11	FUSE, GLASS TUBE 3.15A/125V	(PVM-135 ONLY)
F901	⚠1-576-230-41	FUSE (H.B.C) T3.15A/250V	(PVM-95E/145E ONLY)
L901	⚠9-905-699-01	DEFLECTION YOKE	
T402	⚠9-905-666-01	TRANSFORMER ASSY, FLYBACK	
V901	⚠9-905-700-01	PICTURE TUBE C-9D01SWH2	(PVM-95E ONLY)
V901	⚠9-905-704-01	PICTURE TUBE C-14D01SWH2	(PVM-135/145E ONLY)

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REF. NO.	PART NO.	DESCRIPTION	REMARK
		ACCESSORIES & PACKING MATERIALS	
		**********	
		<PVM-95E>	
	⚠1-551-812-11	CORD, POWER 7A/125V	
	⚠1-590-910-11	CORD SET, POWER 10A/250V	
	*2-990-241-02	HOLDER (A), PLUG	
	*2-990-242-01	HOLDER (B), PLUG	
	*3-170-078-01	HOLDER (B), PLUG	
	*3-704-296-01	BAG, PROTECTION	
	*3-708-670-41	MANUAL, INSTRUCTION	
	*3-708-714-01	INDIVIDUAL CARTON	
	*3-708-722-01	CUSHION (LEFT UPPER)	
	*3-708-723-01	CUSHION (RIGHT LOWER)	
	*3-708-724-01	CUSHION (RIGHT UPPER)	
	*3-708-725-01	CUSHION (LEFT LOWER)	
		<PVM-135/145E>	
	⚠1-551-812-11	CORD, POWER 7A/125V	(PVM-135 ONLY)
	⚠1-590-910-11	CORD SET, POWER 10A/250V	(PVM-145E ONLY)
	*2-990-241-02	HOLDER (A), PLUG	
	*2-990-242-01	HOLDER (B), PLUG	
	*3-170-078-01	HOLDER (B), PLUG	(PVM-145E ONLY)
	*3-704-302-01	BAG, PROTECTION	
	*3-708-670-21	MANUAL, INSTRUCTION	(PVM-135 ONLY)
	*3-708-670-41	MANUAL, INSTRUCTION	(PVM-145E ONLY)
	*3-708-717-01	INDIVIDUAL CARTON	(PVM-135 ONLY)
	*3-708-719-01	INDIVIDUAL CARTON	(PVM-145E ONLY)
	*3-708-743-01	CUSHION (LEFT LOWER)	
	*3-708-744-01	CUSHION (RIGHT UPPER)	
	*3-708-745-01	CUSHION (RIGHT LOWER)	
	*3-708-753-01	CUSHION (LEFT UPPER)	